Access DB# 170347

# SEARCH REQUEST FORM

## Scientific and Technical Information Center

Requester's Full Name: Sin J. Lee Examiner #: 76060 Date: 11-1-05
Art Unit: 1752 Phone Number 30 2-1333 Serial Number: 10/803,999
Mail Box and Bldg/Room Location: 9D60 (Rem.) Results Format Preferred (circle): PAPER DISK E-MAIL

**If more than one search is submitted, please prioritize searches in order of need.**

**********

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Plz. See B-6.

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Plz. Search for a polymer having a structure represented by the formula (I-b) at its side chain. Shown in cl. # 5



**********

**STAFF USE ONLY**

Searcher: usle
Searcher Phone #: _____
Searcher Location: _____
Date Searcher Picked Up: 11/7/05
Date Completed: 11/8/05
Searcher Prep & Review Time: 30
Clerical Prep Time: 30
Online Time: 50

**Type of Search**

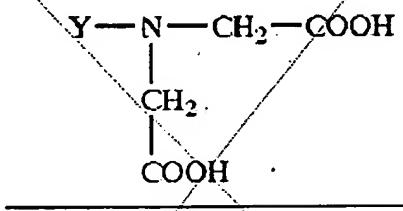
NA Sequence (#) _____
AA Sequence (#) _____
Structure (#) 3
Bibliographic _____
Litigation _____
Fulltext _____
Patent Family _____
Other _____

**Vendors and cost where applicable**

STN ~~E~~ 347.57
Dialog _____
Questel/Orbit _____
Dr.Link _____
Lexis/Nexis _____
Sequence Systems _____
WWW/Internet _____
Other (specify) _____

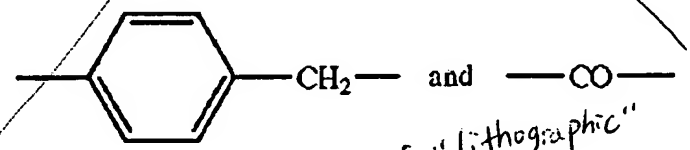
PTO-1590 (8-01)

**4. (currently amended):** A planographic printing plate precursor comprising an intermediate layer containing a polymer having a structure represented by the following formula (I-a) at its side chain and an infrared laser photosensitive positive recording layer disposed on a support in this order:



(I-a)

~~according to claim 1~~, wherein Y represents a connecting group~~in the structure represented by the formula (I) is a structure represented by the following formula (I-a), and the connecting group represented by Y is a structure~~ selected from the following structures**[[.]]**

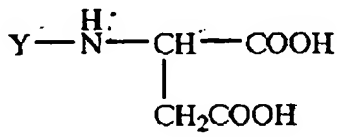


and



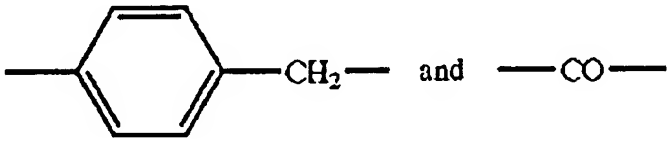
or "lithographic"

**5. (currently amended):** A planographic printing plate precursor comprising an intermediate layer containing a polymer having a structure represented by the following formula (I-b) at its side chain and an infrared laser photosensitive positive recording layer disposed on a support in this order:~~according to claim 1,~~



(I-b)

wherein Y represents a connecting group ~~in the structure represented by the formula (I) is a structure represented by the following formula (I-b). and the connecting group represented by Y is a structure~~ selected from the following structures[[.]]




**6. (currently amended):** ~~A~~ The planographic printing plate precursor according to claim ~~1~~2, wherein a content of the structure represented by the formula (I) in the polymer is 5% by mole or more.

**7. (currently amended):** ~~A~~ The planographic printing plate precursor according to claim ~~1~~2, wherein the polymer is a polymer obtained by copolymerizing a monomer having the structure represented by the formula (I) with another monomer.

**8. (currently amended):** ~~A~~ The planographic printing plate precursor according to claim 7, wherein the another monomer is a monomer having an onium group.

**9. (currently amended):** ~~A~~ The planographic printing plate precursor according to claim 7, wherein the another monomer is a monomer having an acidic group.

UNITED STATES PATENT AND TRADEMARK OFFICE

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Bib Data Sheet

**CONFIRMATION NO. 6919**

| SERIAL NUMBER | FILING DATE | CLASS | GROUP ART UNIT | ATTORNEY DOCKET NO. |
|---|---|---|---|---|
| 10/803,999 | 03/19/2004<br>RULE | 430 | 1752 | Q80517 |

APPLICANTS

Miki Takahashi, Shizuoka-ken, JAPAN;

Hidehito Sasaki, Shizuoka-ken, JAPAN;
Hisashi Hotta, Shizuoka-ken, JAPAN;

** CONTINUING DATA **********
None SJL

** FOREIGN APPLICATIONS **********
JAPAN 2003-78699 03/20/2003
JAPAN 2003-374189 11/04/2003 ) SJL

IF REQUIRED, FOREIGN FILING LICENSE GRANTED
** 06/03/2004

| Foreign Priority claimed | STATE OR | SHEETS | TOTAL | INDEPENDENT |
|---|---|---|---|---|
| ☑ yes ☐ no | | | | |
| 35 USC 119 (a-d) conditions met ☑ yes ☐ no ☐ Met after Allowance | COUNTRY | DRAWING | CLAIMS | CLAIMS |
| Verified and Acknowledged Examiner's Signature SJL Initials | JAPAN | 0 | 19 | 1 |

ADDRESS
23373
SUGHRUE MION, PLLC
2100 PENNSYLVANIA AVENUE, N.W.
SUITE 800
WASHINGTON , DC
20037

TITLE
Planographic printing plate precursor

| FILING FEE | FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT | ☐ All Fees<br>☐ 1.16 Fees ( Filing )<br>☐ 1.17 Fees ( Processing Ext. of time ) |
|---|---|---|

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=> fil reg
FILE 'REGISTRY' ENTERED AT 16:09:14 ON 07 NOV 2005

=> d his

     FILE 'HCAPLUS' ENTERED AT 14:52:32 ON 07 NOV 2005
L1             1 S US20040185375/PN
                 SEL RN

     FILE 'REGISTRY' ENTERED AT 14:52:53 ON 07 NOV 2005
L2             6 S E1-E6

     FILE 'LREGISTRY' ENTERED AT 14:58:50 ON 07 NOV 2005
L3               STR

     FILE 'REGISTRY' ENTERED AT 14:59:59 ON 07 NOV 2005
L4               SCR 2043
L5            50 S L3 AND L4

     FILE 'LREGISTRY' ENTERED AT 15:07:16 ON 07 NOV 2005
L6               STR L3
L7               STR L3
L8               STR L7

     FILE 'REGISTRY' ENTERED AT 15:27:24 ON 07 NOV 2005
L9         10722 S L3 AND L4 FUL
L10           41 S L6 SAM  SUB=L9
L11            6 S L9 AND L2
L12          666 S L6 FUL  SUB=L9
L13            6 S L12 AND L2
                 SAV L9 LEE999/A
                 SAV L12 LEE999A/A
L14            1 S L8 SAM  SUB=L9
L15            2 S L8 FUL  SUB=L9
L16              STR L8
L17           23 S L16 SAM  SUB=L9
L18          441 S L16 FUL  SUB=L9
                 SAV L18 LEE999B/A
                 SAV L15 LEE999C/A
L19          441 S L15 OR L18
L20            0 S L19 AND L2

     FILE 'HCAPLUS' ENTERED AT 15:42:47 ON 07 NOV 2005
L21          445 S L12
L22          628 S L19
L23           15 S L21(L)(PLANOG? OR LITHOG?)
L24           18 S L21 AND (PLANOG? OR LITHOG?)
L25            1 S L24 AND L1
L26           33 S L22 AND (PLANOG? OR LITHOG?)
L27           33 S L26 NOT L24
L28           34 S L21 AND PHOTO?/SC
L29           35 S L24 OR L28


=> d que 126
L3               STR

A~~N~Ak~COOH
1  2  3  4
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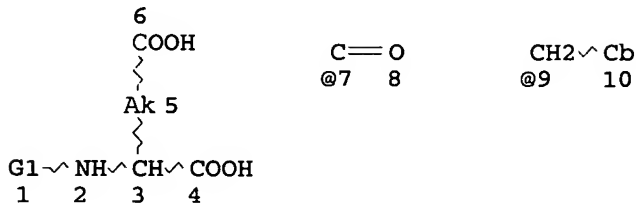
NODE ATTRIBUTES:
NSPEC IS RC AT 1
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 4

STEREO ATTRIBUTES: NONE
L4 SCR 2043
L8 STR

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DEFAULT ECLEVEL IS LIMITED

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RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE
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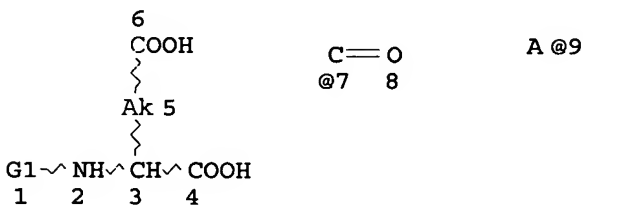
L15 2 SEA FILE=REGISTRY SUB=L9 SSS FUL L8
L16 STR

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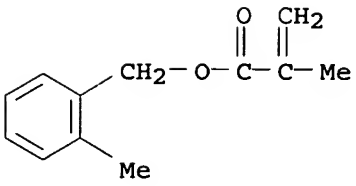
NSPEC IS RC AT 9
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE
L18 441 SEA FILE=REGISTRY SUB=L9 SSS FUL L16
L19 441 SEA FILE=REGISTRY ABB=ON PLU=ON L15 OR L18
L22 628 SEA FILE=HCAPLUS ABB=ON PLU=ON L19
L26 33 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 AND (PLANOG? OR LITHOG?)

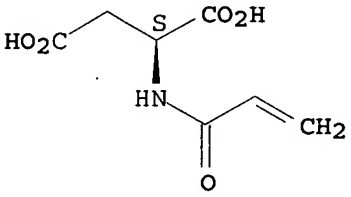
```
=> fil hcap
FILE 'HCAPLUS' ENTERED AT 16:09:30 ON 07 NOV 2005


=> d l26 1-33 ibib abs hitstr hitind

L26  ANSWER 1 OF 33  HCAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         1995:358824  HCAPLUS
DOCUMENT NUMBER:          122:252050
TITLE:                    Electrophotographic lithographic
                          plate master with superior desensitization and
                          good printing performance
INVENTOR(S):              Kato, Eiichi; Ishii, Kazuo
PATENT ASSIGNEE(S):       Fuji Photo Film Co Ltd, Japan
SOURCE:                   Jpn. Kokai Tokkyo Koho, 65 pp.
                          CODEN: JKXXAF
DOCUMENT TYPE:            Patent
LANGUAGE:                 Japanese
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------
     --------
     JP 06282119           A2    19941007    JP 1991-85196
                                                                    1991
                                                                    0417
     JP 2894859            B2    19990524
PRIORITY APPLN. INFO.:                       JP 1991-85196
                                                                    1991
                                                                    0417

AB   The title master comprises an elec. conductive support and
     ≥1 photoconductive layer containing photoconductive zinc oxide,
     photosensitizing dyes, and binder resins containing polymers (Mw 1
     + 103 to 2 + 104) of 0.5-15% components having polar
     group(s) chosen from PO3H2, SO3H, CO2H, P(O)(OH)R1 (R1 =
     hydrocarbyl, OR2; R2 = hydrocarbyl), and acid anhydride groups and
     ≥30% CHa1:Ca2CO2R3 (a1, a2 = H, halogen, cyano,
     hydrocarbyl; R3 = hydrocarbyl) and polymer particles (having diameter
     equal or smaller than the above zinc oxide) obtained by dispersion
     polymerization of monomer(s) containing functional group(s) decomposable to
     OH in the presence of a soluble dispersion-stabilizing resin in a
     nonaq. medium in which the monomers are soluble but the polymers
     formed from the monomers are not.
IT   135820-62-1P
        (binders; electrophotog. lithog. plate master with
        superior desensitization and good printing performance)
RN   135820-62-1  HCAPLUS
CN   L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with
     (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI)  (CA INDEX
     NAME)

     CM   1

     CRN  91990-22-6
     CMF  C12 H14 O2
```



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G013-28
ICS G03G005-05; G03G005-06; G03G005-08
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog **lithog** plate master binder; polymeric dispersant dispersion polymn
IT Dispersing agents
Electrophotographic photoconductors and photoreceptors
(electrophotog. **lithog.** plate master with superior desensitization and good printing performance)
IT Telomers
(electrophotog. **lithog.** plate master with superior desensitization and good printing performance)
IT **Lithographic** plates
(master; electrophotog. **lithog.** plate master with superior desensitization and good printing performance)
IT 65697-21-4P, Benzyl methacrylate-methacrylic acid copolymer 65697-22-5P, Acrylic acid-benzyl methacrylate copolymer 126969-70-8P 126969-78-6P 130094-33-6P 130952-79-3P 131808-63-4P 135740-18-0P 135740-30-6P, Acrylic acid-phenyl methacrylate copolymer 135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P 135740-37-3P 135740-41-9P 135740-44-2P 135740-46-4P 135770-63-7P **135820-62-1P** 139663-63-1P 142648-25-7P 146817-57-4P 146817-58-5P 146817-60-9P 146817-61-0P 160981-13-5P 160981-14-6P 160981-15-7P 160981-16-8P
(binders; electrophotog. **lithog.** plate master with superior desensitization and good printing performance)
IT 25719-51-1DP, carboxy-terminated, ester with 2-hydroxyethyl methacrylate 52229-66-0P, Dodecyl methacrylate-glycidyl methacrylate copolymer methacrylate 100904-38-9DP, reaction products with unsatd. amines 145807-49-4P 147130-23-2P 149235-47-2P 149368-81-0P 149368-84-3P 149433-97-6P

149433-98-7P 149433-99-8P 149434-02-6P 149434-04-8P
149434-05-9P 149434-09-3P 149434-10-6P 149434-11-7P
149434-17-3P 149434-22-0P 149434-38-8P 162413-65-2DP,
reaction products with unsatd. amines 162413-66-3DP, reaction
products with unsatd. amines
(dispersants; electrophotog. **lithog.** plate master
with superior desensitization and good printing performance)

IT 34649-63-3P 84122-30-5P 126688-52-6P 149858-36-6P
149858-38-8P 150957-96-3P 160981-17-9P 160981-18-0P
160981-19-1P 160981-20-4P 160981-21-5P 160981-22-6P
160981-23-7P 160981-24-8P 160981-25-9P 160981-26-0P
160981-27-1P 160981-28-2P 160981-29-3P 160981-30-6P
160981-31-7P 160981-32-8P 160981-33-9P 160981-34-0P
160981-35-1P 160981-36-2P 160981-37-3P
(electrophotog. **lithog.** plate master with superior
desensitization and good printing performance)

IT 115-39-9, Bromophenol blue 518-47-8, Uranin 1314-13-2, Zinc
oxide, uses 11121-48-5, Rose bengal 25133-97-5, Ethyl
acrylate-methacrylic acid-methyl methacrylate copolymer
25135-39-1, Acrylic acid-ethyl acrylate-methyl methacrylate
copolymer 27155-22-2, Acrylic acid-methyl acrylate-methyl
methacrylate copolymer 146115-88-0 152792-19-3 160981-11-3
160981-38-4 160981-39-5 160981-40-8
(electrophotog. **lithog.** plate master with superior
desensitization and good printing performance)

L26 ANSWER 2 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:328341 HCAPLUS
DOCUMENT NUMBER: 122:118886
TITLE: **Lithographic** masters
INVENTOR(S): Kato, Eiichi
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 97 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 05210267 | A2 | 19930820 | JP 1992-40513 | 1992 0131 |

PRIORITY APPLN. INFO.: JP 1992-40513 1992 0131

AB The title masters with good water retention and providing good print image and printing durability under severe conditions, useful in laser scanning exposure utilize electrophotog. photoreceptors containing at least one photoconductive layer containing binder resins on an elec. conductive support and a surface layer containing nonaq. dispersed resin particles. The resin particles are obtained by dispersion polymerization, in a nonaq. solvent, of monofunctional monomers containing ≥1 functional groups which upon decomposition form thiol, sulfo, amino or -P(:Z0)(Z0H)R1 group (Z0 = O, S; R1 = Z0H, hydrocarbyl, Z0R2; R2 = hydrocarbyl) and forming polymers insol. in the solvent and monofunctional comonomers

containing Si and/or F in the presence of dispersion-stabilizing resins soluble in the polymerization medium. The binder resins have Mw 1000-20,000, contain ≥30% CH(a1)C(a2)(CO2R3) repeating unit and 0.5-15% polymer component having polar group(s) chosen from PO3H2, SO3H, CO2H, P(O)(OH)R4, and cyclic acid anhydride group (a1, a2 = H, halogen, cyano, hydrocarbyl; R3 = hydrocarbyl; R4 = hydrocarbyl, hydrocarbyloxy).

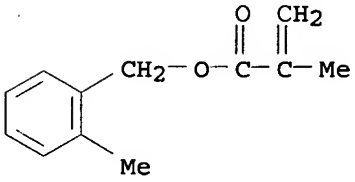
IT **135820-62-1P**
(manufacture for binders in **lithog.** master manufacture)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

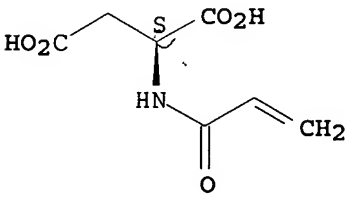
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G013-28
ICS G03G005-05; G03G005-06; G03G005-147

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST **lithog** master electrophotog receptor

IT Dispersing agents
Electrophotographic photoconductors and photoreceptors
(in **lithog.** master manufacture)

IT **Lithographic** plates
(manufacture with electrophotog. photoreceptors)

IT 1314-13-2, Zinc oxide, uses
(in photoreceptors for **lithog.** master manufacture)

IT 65697-21-4P, Benzyl methacrylate-methacrylic acid copolymer
65697-22-5P, Acrylic acid-benzyl methacrylate copolymer

126969-70-8P 126969-78-6P 130094-33-6P, 2-Carboxyethyl acrylate-2-chloro-6-methylphenyl methacrylate copolymer 130952-79-3P 131808-63-4P 135740-18-0P 135740-30-6P, Acrylic acid-phenyl methacrylate copolymer 135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P 135740-36-2P 135740-37-3P 135740-38-4P 135740-39-5P 135740-41-9P 135740-43-1P 135740-44-2P 135740-46-4P 135770-63-7P **135820-62-1P** 139663-63-1P 142648-25-7P 146817-57-4P 146817-58-5P 146817-61-0P 147524-36-5P
(manufacture for binders in **lithog.** master manufacture)

IT 79-41-4DP, fluoroalkyl ester, graft polymers with methacrylates 97-90-5DP, graft polymers with methacrylates 106-91-2DP, graft polymers with methacrylates 142-09-6DP, graft polymers with methacrylates 128541-49-1DP, graft polymers with methacrylates 149234-41-3P 149234-42-4P 149234-44-6P 149234-45-7P 149234-47-9P 149234-49-1P 149234-50-4P 149234-51-5P 149234-52-6P 149234-54-8P 160615-44-1P 160615-46-3P 160615-49-6P 160615-51-0P 160615-53-2P 160615-54-3P 160615-55-4P 160615-56-5P 160615-57-6P 160615-58-7P 160615-59-8P 160615-60-1P 160615-61-2P 160615-62-3P 160615-63-4P 160615-64-5P 160615-65-6P 160615-66-7P 160615-67-8P 160615-68-9P 160615-69-0P 160615-70-3P 160700-85-6P 160700-86-7P
(manufacture in particle form for **lithog.** master manufacture)

IT 868-77-9DP, reaction products with azobis(cyanovaleric acid)-terminated ethylhexyl methacrylate polymers 2638-94-0DP, 4,4'-Azobis(4-cyanovaleric acid), poly(ethylhexyl methacrylate) terminated by, methacryloyloxyethyl esters 25719-51-1DP, Poly(2-Ethylhexyl methacrylate), azobis(cyanovaleric acid)-terminated, methacryloyloxyethyl esters 52229-66-0P, Dodecyl methacrylate-glycidyl methacrylate copolymer methacrylate 145807-49-4P 147130-23-2P 149072-21-9DP, reaction product with allyl amide 149235-47-2P 149368-81-0P 149368-84-3P 149433-97-6P 149433-98-7P 149433-99-8P 149434-01-5P 149434-02-6P 149434-04-8P 149434-06-0P 149434-09-3P 149434-10-6P 149434-11-7P 149434-17-3P 149434-22-0P 149434-38-8P 155313-65-8DP, reaction product with 2-isocyanatoethyl methacrylate
(manufacture of dispersing agents for **lithog.** master manufacture)

L26 ANSWER 3 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:324490 HCAPLUS
DOCUMENT NUMBER: 122:92783
TITLE: **Lithographic** masters
INVENTOR(S): Kato, Eiichi
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 80 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 05210265 | A2 | 19930820 | JP 1992-40508 | 19920131 |

PRIORITY APPLN. INFO.: JP 1992-40508
1992
0131

AB The title masters with good water retention and providing good print image and printing durability under severe conditions, useful in laser scanning exposure comprise at least one photoconductive layer containing binder resins on an elec. conductive support and a surface layer containing nonaq. dispersed resin particles. The resin particles are obtained by dispersion polymerization, in a nonaq. solvent, of monofunctional monomers containing ≥1 functional groups chosen from -W1(CH2)mCH:CH2 and -W2(CH2)nCH2CH2X (W1, W2 = SO2, CO, O2C; m, n = 0, 1; X = halogen) and forming polymers insol. in the solvent and monofunctional comonomers containing Si and/or F in the presence of dispersion-stabilizing resins soluble in the polymerization medium. The binder resins have Mw 1000-20,000, contain ≥30% CH(a1)C(a2)(CO2R3) repeating unit and 0.5-15% polymer component having polar group(s) chosen from PO3H2, SO3H, CO2H, P(O)(OH)R4, and cyclic acid anhydride group (a1, a2 = H, halogen, cyano, hydrocarbyl; R3 = hydrocarbyl; R4 = hydrocarbyl, hydrocarbyloxy).

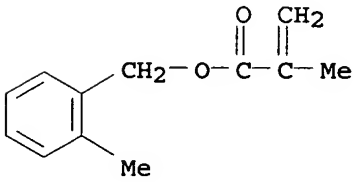
IT **135820-62-1P**
(manufacture for binders in **lithog.** master manufacture)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

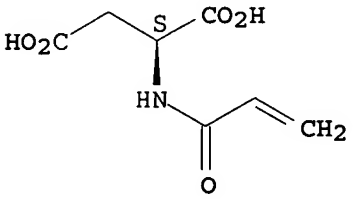
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G013-28
ICS G03G005-05; G03G005-06; G03G005-147
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST **lithog** master electrophotog receptor
IT Dispersing agents
Electrophotographic photoconductors and photoreceptors
(in **lithog.** master manufacture)
IT **Lithographic** plates
(manufacture with electrophotog. photoreceptors)
IT 1314-13-2, Zinc oxide, uses
(in photoreceptors for **lithog.** master manufacture)
IT 65697-21-4P, Benzyl methacrylate-methacrylic acid copolymer 65697-22-5P, Acrylic acid-benzyl methacrylate copolymer 126969-78-6P 130094-33-6P, 2-Carboxyethyl acrylate-2-chloro-6-methylphenyl methacrylate copolymer 130952-79-3P 131808-63-4P 135740-18-0P 135740-30-6P, Acrylic acid-phenyl methacrylate copolymer 135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P 135740-36-2P 135740-37-3P 135740-38-4P 135740-39-5P 135740-41-9P 135740-43-1P 135740-44-2P 135740-46-4P 135770-63-7P **135820-62-1P** 139663-63-1P 142648-25-7P 146817-57-4P 146817-58-5P 146817-61-0P 147524-36-5P
(manufacture for binders in **lithog.** master manufacture)
IT 79-41-4DP, fluoroalkyl ester, graft polymers with methacrylates and allyl derivs. 97-90-5DP, graft polymers with methacrylates and allyl derivs. 106-91-2DP, graft polymers with methacrylates and allyl derivs. 142-09-6DP, graft polymers with methacrylates 149839-06-5DP, graft polymers with methacrylates 151733-35-6P 151752-80-6P 151752-81-7P 151752-82-8P 151752-84-0P 151752-85-1P 151758-71-3P 151758-72-4P 151758-73-5P 151758-74-6P 151758-75-7P 151758-77-9P 151758-79-1P 151758-81-5P 151758-82-6P 151758-83-7P 151758-84-8P 151767-53-2P 151767-55-4P 151813-66-0P 151813-68-2P 156349-26-7P 160615-34-9P 160615-35-0P 160615-36-1P 160615-37-2P 160615-38-3P 160615-39-4P 160615-40-7P 160615-41-8P 160615-42-9P 160615-43-0P 160631-80-1P
(manufacture in particle form for **lithog.** master manufacture)
IT 868-77-9DP, reaction products with azobis(cyanovaleric acid)-terminated ethylhexyl methacrylate polymers 2638-94-0DP, 4,4'-Azobis(4-cyanovaleric acid), poly(ethylhexyl methacrylate) terminated by, methacryloyloxyethyl esters 25719-51-1DP, Poly(2-Ethylhexyl methacrylate), azobis(cyanovaleric acid)-terminated, methacryloyloxyethyl esters 52229-66-0P, Dodecyl methacrylate-glycidyl methacrylate copolymer methacrylate 145807-49-4P 147130-23-2P 149072-21-9DP, reaction product with allyl amide 149235-47-2P 149368-81-0P 149368-84-3P 149433-97-6P 149433-98-7P 149433-99-8P 149434-01-5P 149434-02-6P 149434-04-8P 149434-06-0P 149434-09-3P 149434-10-6P 149434-11-7P 149434-17-3P 149434-22-0P 149434-38-8P 155313-65-8DP, reaction product with 2-isocyanatoethyl methacrylate
(manufacture of dispersing agents for **lithog.** master manufacture)

L26 ANSWER 4 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:496066 HCAPLUS
DOCUMENT NUMBER: 121:96066
TITLE: Electrophotographic **lithographic** plate

INVENTOR(S): Kato, Eiichi
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 80 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 05216294 | A2 | 19930827 | JP 1992-47658 | 1992 0204 |

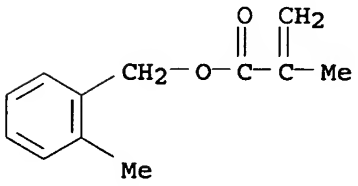
PRIORITY APPLN. INFO.: JP 1992-47658 1992 0204

AB In the title **lithog.** platemaking using an electrophotog. plate possessing ≥ 1 photoconductor layers and a claimed surface layer, the latter contains dispersion resin particles (L), the binder resin for the photoconductive layer contains ≥ 1 claimed binder resins (A), the latent image produced on the electrophotog. plate is developed with a toner, and the photoconductive layer in the non-image-bearing regions is desensitized with a solution containing a hydrophilic compound (Pearson's nucleophilic constant ≥ 5). L is obtained by dispersion polymerizing, in a nonaq. solvent, a monofunctional monomer containing ≥ 1 functional groups selected from a formyl group and a group expressed by CH(OA1)(OA2) [A1,A2 = hydrocarbyl, or may join together to form a ring], with a monofunctional monomer containing substituents containing Si and(or) F in the presence of a soluble dispersion-stabilizing agent. A (weight average mol. weight 1x103-2x104) contains the polymer component CHa1Ca2(CO2R) [a1,a2 = H, halo, CN, hydrocarbyl; R = hydrocarbyl] > 30% and a polymer component containing > 1 polar groups selected from PO3H2, SO3H, CO2H, P(O)(OH)R (R = hydrocarbyl, oxyhydrocarbyl), and cyclic acid anhydride-containing group, 0.5-15%.

IT **135820-62-1P**
(preparation of, as binder resin)
RN 135820-62-1 HCAPLUS
CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

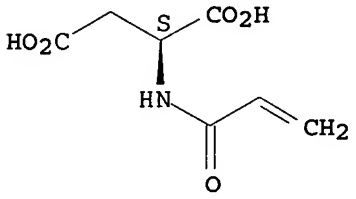
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G013-28
ICS G03G005-05; G03G005-06; G03G005-147
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog **lithog** plate polymer
IT **Lithographic** plates
(electrophotog., with superior water retention)
IT Electrophotographic photoconductors and photoreceptors
(for **lithog.** platemaking)
IT Fluoropolymers
(preparation of, as latex particles for **lithog.** platemaking)
IT 56-45-1, Serine, uses 68-11-1, Thioglycolic acid, uses 70-49-5, Thiomalic acid 110-91-8, Morpholine, uses 111-42-2, Diethanolamine, uses 141-43-5, Monoethanolamine, uses 147-93-3, Thiosalicylic acid 7757-83-7, Sodium sulfite 7772-98-7, Sodium thiosulfate 10196-04-0, Ammonium sulfite 23522-05-6, Taurin 43064-23-9, 2-Mercaptoethylphosphonic acid 145024-19-7, 4-Sulfobenzenesulfinic acid
(**lithog.** desensitizing solution containing)
IT 65697-21-4P, Benzyl methacrylate-methacrylic acid copolymer 65697-22-5P, Acrylic acid-benzyl methacrylate copolymer 126969-78-6P 130094-33-6P 130952-79-3P 131808-63-4P 135740-18-0P 135740-30-6P 135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P 135740-36-2P 135740-37-3P 135740-38-4P 135740-39-5P 135740-41-9P 135740-43-1P 135740-44-2P 135740-46-4P 135770-63-7P **135820-62-1P** 139663-63-1P 142648-25-7P 146817-57-4P 146817-58-5P 146817-61-0P 147524-36-5P
(preparation of, as binder resin)
IT 152640-64-7P 152681-23-7P 152681-24-8P 152681-27-1P 152725-78-5P 156440-91-4P
(preparation of, as latex for **lithog.** platemaking)
IT 79-41-4DP, Methacrylic acid, fluoroalkyl esters, polymers with methacrylates 97-90-5DP, Ethylene glycol dimethacrylate, polymers with methacrylates 106-91-2DP, Glycidyl methacrylate, polymers with methacrylates 142-09-6DP, Hexyl methacrylate, polymers with methacrylates 139288-11-2DP, polymers with methacrylates 149234-56-0P 152640-58-9P 152640-60-3P 152640-61-4P 152640-62-5P 152681-47-5P 152681-48-6P 152725-66-1P 152725-67-2P 152725-68-3P 152725-69-4P 152725-70-7P 152725-71-8P 152725-72-9P 152725-73-0P

152725-74-1P 152725-75-2P 152725-76-3P 152725-77-4P
153014-29-0P
(preparation of, as latex particles for **lithog.** platemaking)

L26 ANSWER 5 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:496062 HCAPLUS
DOCUMENT NUMBER: 121:96062
TITLE: Electrophotographic **lithographic** plate precursor
INVENTOR(S): Kato, Eiichi
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 98 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 05127393 | A2 | 19930525 | JP 1991-311312 | 1991 1031 |

PRIORITY APPLN. INFO.: JP 1991-311312 1991 1031

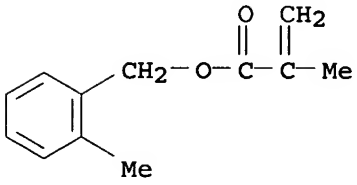
AB In the title precursor utilizing an electrophotog. photoreceptor made by forming on an elec. conductive support ≥1 photoconductive layer(s) and forming on the top layer a surface layer, the surface layer contains ≥1 kind(s) of the following nonaq. solvent-dispersed resin grains [L] and the photoconductive layer contains ≥1 kind(s) of the following resins [A] as a binder resin. The resin grains [L] are obtained in a nonaq. solvent by dispersion polymerization of ≥1 kind(s) of mono functional monomers (C) being soluble in the nonaq. solvent but insol. after polymerization and which contains ≥1 kind(s) of functional groups which forms ≥1 of SH, SO3H, amino, and P(:Z)(-Z-H)R1 groups [Z = O, S; R1 = -Z-H, hydrocarbon, -Z-R2 (R2 = hydrocarbon)] upon decomposition in the presence of a dispersion stabilizing polymer containing at least repeating units containing a substituent group(s) containing Si and/or F and soluble to the nonaq. solvent. The resins [A] are resins having a weight average mol. weight 1 x 103-2 x 104; the resins contain as a polymer component the repeating monomer units [-CHa1-Ca2(CO2R3)-] (a1, a2 = H, halo, CN, hydrocarbon group; R3 = hydrocarbon group) >30% and a polymer component 0.5-15 % having ≥1 kind of polar groups selected from -PO3H2, -SO3H, -CO2H, -P(:O)(OH)R1 [R1 = hydrocarbon group, OR2 (R2 = hydrocarbon group)], and cyclic acid anhydride-containing groups. The **lithog.** plate precursor provides superior printing images and shows high printing durability even under severe conditions and is effective for scanning exposure using a semiconductor laser.

IT **135820-62-1P**
(low-mol.-weight, preparation and use of, as binders for photoconductive layer)
RN 135820-62-1 HCAPLUS
CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with

(2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

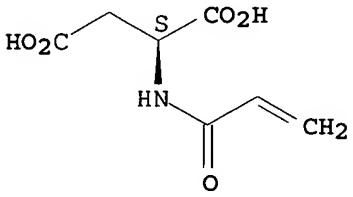
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05
ICS G03G005-147; G03G013-28
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog **lithog** plate binder resin; resin grain electrophotog **lithog** plate; surface layer electrophotog **lithog** plate
IT **Lithographic** plates
(electrophotog., masters, binder resin of photoconductive layer and resin grains of surface layer for)
IT 149212-64-6P 149212-66-8P 149212-68-0P 149212-70-4P
149212-71-5P 149212-74-8P 149212-75-9P 149212-76-0P
149212-77-1P 149212-78-2P 149212-79-3P 149212-80-6P
149212-81-7P 149212-83-9P 149212-84-0P 149212-85-1P
149212-86-2P 149212-87-3P 149212-88-4P 149212-89-5P
149212-90-8P 149234-31-1P 149234-33-3P 149234-35-5P
149234-37-7P 149234-39-9P 149234-64-0P 149234-65-1P
149234-66-2P 149234-67-3P 149234-68-4P 149234-69-5P
149235-74-5P 149235-80-3P 149235-82-5P 149295-86-3P
149333-66-4P 155554-91-9P 156321-46-9P 156622-62-7P
156705-17-8P
(latex, preparation and use of, for surface layer of electrophotog. **lithog.** plate precursor)
IT 65697-21-4P 65697-22-5P, Acrylic acid-benzyl methacrylate copolymer 126969-78-6P 130094-33-6P 130952-79-3P

131808-63-4P 135740-18-0P 135740-30-6P 135740-31-7P
135740-32-8P 135740-33-9P 135740-35-1P 135740-36-2P
135740-37-3P 135740-38-4P 135740-39-5P 135740-41-9P
135740-43-1P 135740-44-2P 135740-46-4P 135770-63-7P
**135820-62-1P** 139663-63-1P 142648-25-7P 146817-57-4P
146817-58-5P 146817-61-0P 147524-36-5P
(low-mol.-weight, preparation and use of, as binders for photoconductive layer)

L26 ANSWER 6 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:496060 HCAPLUS
DOCUMENT NUMBER: 121:96060
TITLE: Electrophotographic **lithographic** printing plate having excellent water retention
INVENTOR(S): Kato, Eiichi
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 89 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 05100462 | A2 | 19930423 | JP 1991-284154 | 1991 1004 |

PRIORITY APPLN. INFO.: JP 1991-284154 1991 1004

AB In the title electrophotog. **lithog.** printing plate comprising ≥1 photoconductor layer on a conductive support and an uppermost surface layer, the uppermost surface layer contains ≥1 kind of nonaq. dispersion resin particles (L) and the photoconductor layer contains ≥1 kind of resin (A) as a binder resin:. The nonaq. dispersion resin particles (L) are made of a copolymer obtained in a nonaq. solvent by dispersion polymerization of a monofunctional monomer (C), which is soluble in the nonaq. solvent but insol. upon polymerization and is capable of forming ≥1 functional group having ≥1 COOH group upon decomposition, in the presence of a dispersion stabilizing resin which is soluble in the solvent containing F- and/or Si-bearing group in a repeating unit. The resin (A) has weight-average mol. weight 1000-20,000 and is made of a repeating unit [a1HCCa2(COOR3)] [a1,2 = H, halo, cyano, hydrocarbyl; R3 = hydrocarbyl] ≥30% and a polymer component 0.5-15% containing ≥1 polar moiety selected from PO3H2, SO3H, COOH, P(:O)(OH)R1 [R1 = hydrocarbyl or OR2; R2 = hydrocarbyl], and cyclic anhydrides.

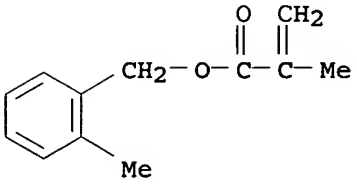
IT **135820-62-1P**
(preparation of, for electrophotog. materials for **lithog.** plate manufacture)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

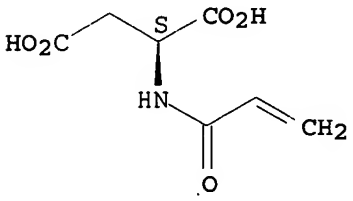
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-147
ICS G03G005-05; G03G005-06; G03G013-28
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog **lithog** printing plate
IT **Lithographic** plates
(manufacture of, electrophotog. materials for)
IT 65697-21-4P 65697-22-5P, Acrylic acid-benzyl methacrylate copolymer 126969-70-8P 126969-78-6P 130094-33-6P
130952-79-3P 131808-63-4P 135740-18-0P 135740-30-6P
135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P
135740-36-2P 135740-37-3P 135740-38-4P 135740-39-5P
135740-41-9P 135740-43-1P 135740-44-2P 135740-46-4P
135770-63-7P **135820-62-1P** 139663-63-1P 142648-25-7P
145168-75-8P 145168-89-4P 145168-94-1P 145169-02-4P
145169-03-5P 145169-04-6P 145169-24-0P 145169-26-2P
145169-30-8P 145807-38-1P 145807-40-5P 145807-41-6P
145807-51-8P 145807-53-0P 145807-54-1P 145807-55-2P
145807-57-4P 145807-62-1P 145807-63-2P 145807-64-3P
145807-65-4P 145807-66-5P 145807-68-7P 145807-72-3P
145807-78-9P 145807-80-3P 146188-26-3DP, carboxy-terminated, ester with 2-hydroxyethyl methacrylate 146817-57-4P
146817-58-5P 146817-61-0P 147524-36-5P 149072-24-2DP, reaction product with 2-isocyanatoethyl methacrylate
149072-28-6P 149072-31-1P 149072-33-3P 149072-36-6P
149072-38-8P 149072-39-9P 149072-47-9P 149072-48-0P
149072-49-1P 149072-50-4P 149072-52-6P 149072-53-7P
149072-55-9P 149072-56-0P 149072-99-1P 149093-43-6P

149093-44-7P 149093-46-9P 149093-47-0P 149368-83-2P
149434-15-1P 149434-25-3P 149434-28-6P 149658-55-9P
150103-52-9P 150103-59-6DP, reaction product with cyanatoethyl methacrylate 154042-89-4P 154042-90-7P 154042-92-9P
154042-93-0P 154042-94-1P 154042-95-2P 154042-96-3P
154042-97-4P 154042-98-5P 154042-99-6P 154043-00-2P
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154043-09-1P 154043-10-4P 154043-11-5P 154397-48-5P
154452-24-1P 154452-25-2P 154452-26-3P 154452-28-5P
154483-07-5P
(preparation of, for electrophotog. materials for **lithog.** plate manufacture)

L26 ANSWER 7 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:480354 HCAPLUS
DOCUMENT NUMBER: 121:80354
TITLE: Electrophotographic plates for **lithographic** plates with improved olesensitization characteristics
INVENTOR(S): Kato, Eiichi; Ishii, Kazuo
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 103 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 05066578 | A2 | 19930319 | JP 1991-227963 | 19910909 |

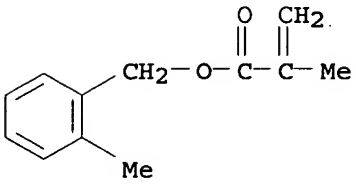
PRIORITY APPLN. INFO.: JP 1991-227963 19910909

AB The title electrophotog. plate is comprised of an electroconductive support coated with a photoconductive layer and a surface layer with the former containing a spectral sensitizer dye and a binder resin (A) and the latter containing ≥1 type of nonaq. resin-dispensed resin particles. Resin (A) (weight average mol. weight 1 + 103-2 + 104) contains the polymer component, CHa1Ca2(CO2R3) [a1, a2 = H, halo, CN, hydrocarbon group; R3 = hydrocarbyl] ≥30% and a polymer component 0.5-15% containing ≥1 type of polar groups selected from PO3H2, SO3H, CO2H, etc. The above nonaq. solvent-dispersed resin particles are obtained by dispersion polymerizing ≥1 type of monofunctional monomers containing ≥1 type of functional groups capable of decomposing to form SH, phosphono, amino, and(or) R1P(O)(OH) [R1 = hydrocarbyl, or OR2 (R2 = hydrocarbyl)] becoming insol. upon polymerization in the presence of a nonaq. solvent soluble dispersion-stabilizing resin. The electrophotog. plate gives superior **lithog.** plates and good durability even under severe conditions.
IT **135820-62-1P**
(preparation and use of, as binder resin)
RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

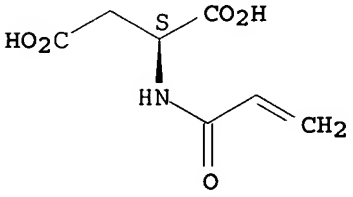
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05
ICS G03G005-06; G03G005-147; G03G013-28
CC 14-3 (Mammalian Pathological Biochemistry)
ST electrophotog **lithog** plate durability; binder resin electrophotog **lithog** plate
IT Acrylic polymers, uses
(binder resins and latexes from, **lithog.** masters from)
IT **Lithographic** plates
(electrophotog., offset, stain-resistant)
IT Electrophotographic photoconductors and photoreceptors
(for **lithog.** masters)
IT 65697-21-4P 65697-22-5P, Acrylic acid-benzylmethacrylate copolymer 126969-78-6P 130094-33-6P 130952-79-3P
131808-63-4P 135740-18-0P 135740-30-6P 135740-31-7P
135740-32-8P 135740-33-9P 135740-35-1P 135740-36-2P
135740-37-3P 135740-38-4P 135740-39-5P 135740-41-9P
135740-43-1P 135740-44-2P 135740-46-4P 135770-63-7P
**135820-62-1P** 139645-92-4P 139663-63-1P 142648-25-7P
146817-57-4P 146817-58-5P 146817-61-0P 147524-36-5P
(preparation and use of, as binder resin)

L26 ANSWER 8 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:469568 HCAPLUS

DOCUMENT NUMBER: 121:69568
TITLE: Electrophotographic photoreceptor sheet for **lithographic** platemaking
INVENTOR(S): Kato, Eiichi
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 74 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 05188663 | A2 | 19930730 | JP 1992-20695 | 19920110 |

PRIORITY APPLN. INFO.: JP 1992-20695 19920110

AB In the title photoreceptor sheet, comprising on an elec. conductive support, ≥ 1 photoconductive layers and a surface layer, the surface layer contains nonaq. solvent-dispersed resin particles (L) and the photoconductive layer contains the binder resin (A) claimed below. L is obtained by dispersion polymerizing, in the presence of a soluble dispersion-stabilizing resin, ≥ 1 monofunctional monomers containing ≥ 1 functional groups yielding CO2H on decomposition and a monofunctional monomer containing substituents containing Si and(or) F. Binder resin (A) (weight average mol. weight 1 x 103-2 x 104) is based on the polymer component CHa1:Ca2(CO2R) [a1,a2 = H, halo, CN, hydrocarbyl; R = hydrocarbyl] ≥ 30% and a polymer component containing ≥ 1 polar groups selected from PO3H2, SO3H, CO2H, P(O)(OH)R1 (R1 = hydrocarbyl, oxyhydrocarbyl), and cyclic anhydride, 0.5-15%.

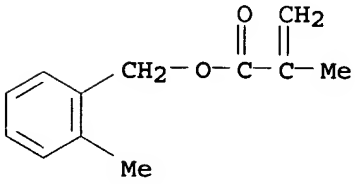
IT **135820-62-1P**
(preparation of, as binder resin)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

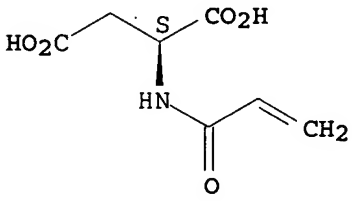
CRN 91990-22-6
CMF C12 H14 O2




CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G013-28
ICS G03G005-05; G03G005-06; G03G005-147
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 35
ST electrophotog photoreceptor **lithog** platemaking; binder polymer electrophotog photoreceptor
IT **Lithographic** plates
(electrophotog. plate for durable)
IT Electrophotographic photoconductors and photoreceptors
(for durable **lithog.** plates)
IT 65697-21-4P, Benzyl methacrylate-methacrylic acid copolymer 65697-22-5P, Acrylic acid-benzyl methacrylate copolymer 126969-78-6P, Acrylic acid-2-chloro-6-methylphenyl methacrylate copolymer 130094-33-6P, 2-Carboxyethyl acrylate-2-chloro-6-methylphenyl methacrylate copolymer 130952-79-3P 131808-63-4P, Benzyl methacrylate-2-phosphonoethyl methacrylate copolymer 135740-18-0P 135740-30-6P, Acrylic acid-phenyl methacrylate copolymer 135740-31-7P, Acrylic acid-2-methylphenyl methacrylate copolymer 135740-32-8P 135740-33-9P, 2,6-Dichlorophenyl methacrylate-4-vinylbenzoic acid copolymer 135740-35-1P 135740-36-2P 135740-37-3P 135740-38-4P 135740-39-5P, 4-Carboxybutyl methacrylate-2-naphthyl methacrylate copolymer 135740-41-9P 135740-43-1P, 2-Naphthylethyl methacrylate-3-sulfopyridiniumpropyl methacrylate copolymer 135740-44-2P, Acrylic acid-2-phenoxyethyl methacrylate copolymer 135740-46-4P, Acrylic acid-2-bromophenyl methacrylate copolymer 135770-63-7P **135820-62-1P** 139645-92-4P, Acrylic acid-2,6-dichlorophenyl methacrylate telomer with n-dodecylmercaptan 139663-63-1P 142648-25-7P 146817-57-4P 146817-58-5P, 1-Naphthyl methacrylate-2-phosphonoethyl acrylate copolymer 146817-61-0P 147524-36-5P
(preparation of, as binder resin)

L26 ANSWER 9 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:446534 HCAPLUS
DOCUMENT NUMBER: 121:46534
TITLE: Electrophotographic plate for electrophotographic **lithographic** plates
INVENTOR(S): Kato, Eiichi; Kasai, Seishi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: PCT Int. Appl., 213 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9215048 | A1 | 19920903 | WO 1992-JP188 | 19920221 |
| W: US<br>RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE | | | | |
| JP 04268564 | A2 | 19920924 | JP 1991-78711 | 19910222 |
| JP 04291265 | A2 | 19921015 | JP 1991-78175 | 19910319 |
| JP 04304462 | A2 | 19921027 | JP 1991-94886 | 19910402 |
| JP 04355457 | A2 | 19921209 | JP 1991-156246 | 19910531 |
| EP 535236 | A1 | 19930407 | EP 1992-905099 | 19920221 |
| EP 535236<br>R: DE, GB | B1 | 19961218 | | |
| US 5342716 | A | 19940830 | US 1992-946320 | 19921022 |

| PRIORITY APPLN. INFO.: | | |
|---|---|---|
| JP 1991-78711 | A | 19910222 |
| JP 1991-78175 | A | 19910319 |
| JP 1991-94886 | A | 19910402 |
| JP 1991-156246 | A | 19910531 |
| WO 1992-JP188 | W | 19920221 |

AB The title electrophotog. plate utilizing a photoconductor layer containing photoconductive ZnO, a spectral sensitizer dye, and a binder resin, the binder resin contains ≥1 resins (A) (weight average mol. weight 1 + 103-2 + 104) containing polymer component [CHa1a2(CO2R3)] [a1, a2 = H, halo, CN, hydrocarbon moiety; R3 = hydrocarbon moiety] ≥ 30% and a polymer component containing ≥1 polar groups selected from PO3H2, SO3H, CO2H, P(O)(OH)R1 (R1 = hydrocarbon or oxyhydrocarbon moiety), and a cyclic acid

anhydride moiety 0.5-15%. In addition, the photoconductor layer contains nonaq. medium dispersed resin fine particles (L) having particle size less than that of the maximum diameter of the photoconductive ZnO particles utilized above. L is obtained by copolymg. a monofunctional monomer possessing ≥1 functional groups capable of decomposing to form CO2H with another monofunctional monomer(s) in the precursor of a nonaq. solvent-soluble dispersion-stabilizing resin with structure repeating units containing F- and(or) Si-containing substituents. The electrophotog. plate gives **lithog.** printing plates giving superior printed copies even under severe ambient conditions and having good durability.

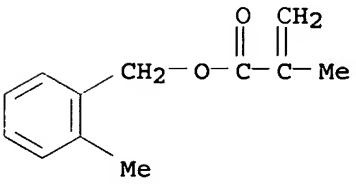
IT **135820-62-1P**
(preparation of, as binder resin)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

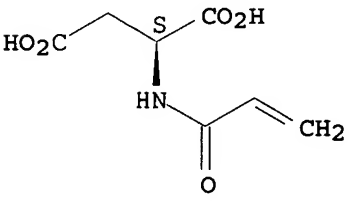
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 35

ST **lithog** plate electrophotog photoreceptor

IT **Lithographic** plates
(electrophotog.)

IT Electrophotographic photoconductors and photoreceptors
(**lithog.** platemaking using)

IT 149072-74-2 149072-75-3 149072-76-4 149072-77-5
149072-78-6 149072-79-7 149072-80-0 149072-81-1
149072-92-4 149072-93-5 149072-94-6 149072-95-7
149072-96-8 149072-97-9 149093-56-1
(latex from, for electrophotog. plate for **lithog.** platemaking)
IT 149072-64-0 149072-65-1 149072-66-2 149072-67-3
149072-68-4 149072-69-5 149072-70-8 149072-72-0
149072-73-1 149073-00-7 149073-01-8 149093-54-9
149093-55-0
(latex particles from, for electrophotog. **lithog.** plates)
IT 149072-29-7 149072-31-1 149072-33-3 149072-34-4
149072-35-5 149072-36-6 149072-38-8 149072-39-9
149072-40-2 149072-41-3 149072-42-4 149072-43-5
149072-44-6 149072-45-7 149072-46-8 149072-47-9
149072-48-0 149072-49-1 149072-50-4 149072-51-5
149072-52-6 149072-53-7 149072-55-9 149072-56-0
149072-57-1 149072-58-2 149072-59-3 149072-61-7
149072-62-8 149072-63-9 149072-98-0 149072-99-1
149093-43-6 149093-44-7 149093-45-8 149093-46-9
149093-47-0 149093-48-1 149093-50-5 149093-51-6
149093-53-8 149093-58-3 149124-86-7 149333-75-5
150497-83-9 150497-84-0 150497-86-2 150497-88-4
150497-96-4
(latex particles, for electrophotog. **lithog.** plates)
IT 80-62-6DP, Methylmethacrylate, carboxylation product
19102-44-4DP, 1-Naphthylmethacrylate, carboxy-terminated
30475-53-7P 65697-21-4P 65697-22-5P, Acrylic acid-benzyl methacrylate copolymer 126969-78-6P 127909-38-0P
128338-04-5P 128338-05-6P 130094-33-6P 130952-79-3P
131808-63-4P 135740-18-0P 135740-30-6P 135740-31-7P
135740-32-8P 135740-33-9P 135740-35-1P 135740-37-3P
135740-39-5P 135740-43-1P 135740-44-2P 135740-46-4P
135740-47-5P 135770-63-7P **135820-62-1P** 138059-19-5P
138059-20-8P 138059-23-1P 138059-26-4P 138059-27-5P
138059-28-6P 138059-30-0P 138059-31-1P 138059-33-3P
138059-35-5P 138059-36-6P 139357-81-6P 139645-92-4P
139989-86-9P 145169-24-0P 145807-38-1P 146115-83-5P
146188-26-3DP, carboxy-terminated, ester with 2-hydroxyethylmethacrylate 146716-90-7P 146716-92-9P
146716-99-6P 146717-07-9P 146817-57-4P 146817-58-5P
146817-61-0P 146817-67-6P 147524-36-5P 149072-15-1P
149072-16-2P 149072-17-3P 149072-18-4P 149072-19-5P
149093-39-0P 149093-41-4P 149093-42-5P 149124-85-6P
(preparation of, as binder resin)

L26 ANSWER 10 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:334999 HCAPLUS
DOCUMENT NUMBER: 120:334999
TITLE: Electrophotographic **lithographic** plate material
INVENTOR(S): Kato, Eiichi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 66 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 05019521 | A2 | 19930129 | JP 1991-198307 | 1991 0715 |

PRIORITY APPLN. INFO.: JP 1991-198307 1991 0715

AB In the title material utilizing an electrophotog. photoreceptor made by forming on an elec. conductive support ≥1 photoconductive layer(s) and forming on the topmost layer a surface layer, the surface layer contains ≥1 kind(s) of the following nonaq. solvent-dispersed resin grains [L] and the photoconductive layer contains ≥1 kind(s) of the following resins [A] as a binder resin. The resin grains [L] are obtained in a nonaq. solvent by dispersion polymerization of ≥1 kind(s) of monofunctional monomers (C) being soluble in the nonaq. solvent but insol. after polymerization and which forms ≥1 OH group(s) upon decomposition and ≥1 kind(s) of monofunctional monomers (D) copolymerizable with the monomers (C) and containing substituents containing ≥2 Si- and/or F in the presence of a nonaq. solvent-soluble dispersion stabilizing polymer. The resin [A] having a weight average mol. weight 1 x 103-2 x 104 contains a polymer component >30% having repeating monomer units [CHa1-Ca2(CO2R3)] (a1, a2 = H, halo, CN, hydrocarbon group; R3 = hydrocarbon group) and a polymer component 0.5-15 % having ≥1 kind of polar groups selected from -PO3H2, -SO3H, -CO2H, -P(O)(OH)R1 [R1 = hydrocarbon group, OR2 (R2 = hydrocarbon group)], and cyclic acid anhydride groups. The material produces a **lithog.** plate which provides superior printed images, shows high printing durability even under severe conditions, and is effective for scanning exposure using a semiconductor laser.

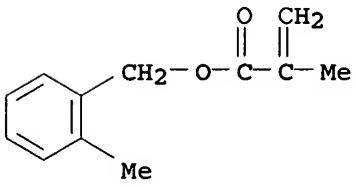
IT **135820-62-1P**
(low-mol.-weight, preparation of, as binders for photoconductive layer)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

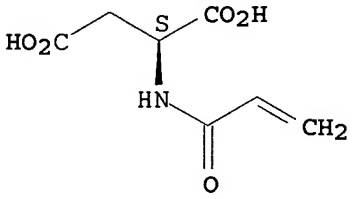
CRN 91990-22-6
CMF C12 H14 O2




CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-147
ICS G03G005-05; G03G005-06; G03G013-28
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog **lithog** plate binder resin; resin grain electrophotog **lithog** plate
IT **Lithographic** plates
(electrophotog., binder resin and resin grains for)
IT 149858-16-2P 149858-17-3P 149858-21-9P 149858-25-3P
149858-39-9P 149858-40-2P 149858-41-3P 149891-63-4P
149891-64-5P 149891-65-6P 149891-67-8P 149891-69-0P
154033-12-2P 154033-13-3P
(latex, preparation and use of, for surface layer of electrophotog. **lithog.** plate material)
IT 79-41-4DP, fluoroalkyl derivative, graft copolymer with hexyl methacrylate, glycidyl methacrylate, ethylene glycol dimethacrylate, and tetrahydrothienyloxyethyl methacrylate 97-90-5DP, graft copolymer with hexyl methacrylate, glycidyl methacrylate, methacrylic acid, and tetrahydrothienyloxyethyl methacrylate 106-91-2DP, graft copolymer with hexyl methacrylate, ethylene glycol dimethacrylate, methacrylic acid, and tetrahydrothienyloxyethyl methacrylate 142-09-6DP, graft copolymer with glycidyl methacrylate, ethylene glycol dimethacrylate, methacrylic acid, and tetrahydrothienyloxyethyl methacrylate 124607-96-1DP, graft copolymer with methacrylic acid, ethylene glycol dimethacrylate, glycidyl methacrylate, and hexyl methacrylate 149858-19-5P 149858-23-1P 149858-24-2P
149858-26-4P 149858-27-5P 149858-28-6P 149858-29-7P
149858-30-0P 149858-31-1P 149858-32-2P 149858-33-3P
149858-34-4P 149858-35-5P 149858-37-7P 149858-85-5P
149891-50-9P 149934-48-5P 150086-48-9P
(latex, preparation of, for surface layer of electrophotog. **lithog.** plate material)
IT 65697-21-4P 130952-79-3P 131808-63-4P 135740-18-0P
135740-31-7P 135740-32-8P 135740-37-3P 135740-39-5P
135740-43-1P 135740-44-2P 135740-46-4P 135770-63-7P
**135820-62-1P** 139663-63-1P 142648-25-7P 146817-57-4P
147524-36-5P
(low-mol.-weight, preparation of, as binders for photoconductive layer)

L26 ANSWER 11 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:311614 HCAPLUS
DOCUMENT NUMBER: 120:311614
TITLE: Electrophotographic **lithographic** printing plate with high sensitivity to semiconductor laser scanning method

INVENTOR(S): Kato, Eiichi; Kasai, Kyosuke
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 79 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 05034947 | A2 | 19930212 | JP 1991-207238 | 1991 0725 |

PRIORITY APPLN. INFO.: JP 1991-207238 1991 0725

AB In an electrophotog. **lithog.** printing plate having ≥1 photoconductor layer containing a photoconductive ZnO, a spectral sensitizing dye and a binder resin, the photoconductor layer contains ≥1 binder resin (A) and ≥1 kind of nonaq. dispersion resin particles (B) whose average grain diameter is smaller than or equal to a maximum grain diameter of the photoconductive ZnO particles:. The binder resin (A) contains the repeating unit [a1HCCa2(COOR3)] [a1,2 = H, halo, cyano, hydrocarbon; R3 = hydrocarbon] having weight average mol. weight 1,000-20,000 as a polymer component ≥30% and another polymer component 0.5-15% containing ≥1 polar moiety selected from PO3H2, SO3H, COOH, P(:O)(OH)R1 [R1 = hydrocarbon, OR2; R2 = hydrocarbon], and a group containing cyclic anhydride. The nonaq. dispersion resin particles (B) are made of a copolymer obtained by dispersion polymerization of a monofunctional monomer (C) in the presence of a dispersion-stabilizing resin, which, soluble in the nonaq. solvent, contains a substituent containing Si and/or F, in which the monofunctional monomer (C) contains W1(CH2)n1HC:CH2 and/or W2(CH2)n2CH2CH2X [W1,2 = SO2, CO, OCO; n1, n2 = 0, 1; and X = halo] and is soluble in the nonaq. solvent but becoming insol. upon polymerization

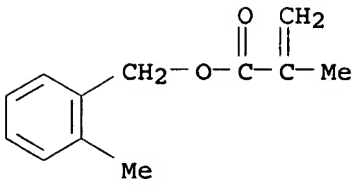
IT **135820-62-1P**
(preparation of, electrophotog. **lithog.** printing plate from)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

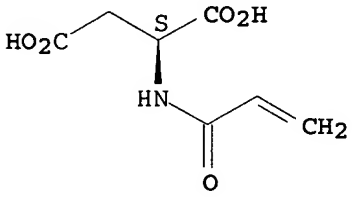
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05
ICS G03G005-05; G03G005-06; G03G005-08; G03G013-28
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog **lithog** printing plate; binder resin electrophotog **lithog** printing; semiconductor laser scanning electrophotog **lithog**
IT **Lithographic** plates
(electrophotog., binder resins for)
IT 145169-30-8P 149072-24-2DP, reaction product with 2-isocyanatoethyl methacrylate 149368-83-2P 149368-85-4P
149434-15-1P 149434-25-3P 149434-28-6P 149434-33-3P
149658-55-9P 149839-15-6P 149839-16-7P 149839-17-8P
149839-18-9P 149839-20-3P 149858-84-4P 149923-42-2P
149923-43-3P 149923-44-4P 149923-45-5P 149923-47-7P
149923-52-4P 149923-53-5P 149923-54-6P 149923-56-8P
149923-57-9P 149923-58-0P 149923-59-1P 149923-60-4P
149923-61-5P 149923-62-6P 149923-63-7P 149923-64-8P
149923-65-9P 149923-67-1P 149961-77-3P 150103-52-9P
152390-26-6P 152390-27-7P 152390-28-8P 152390-29-9P
152390-30-2P 152406-06-9P 152406-07-0P 152406-09-2P
152406-10-5P 152406-11-6P 152466-49-4P 152466-63-2P
153014-31-4P
(preparation and use of, electrophotog. **lithog.** printing plate from)
IT 65697-21-4P 65697-22-5P 126969-70-8P 126969-78-6P
130094-33-6P 130952-79-3P 131808-63-4P 135740-18-0P
135740-30-6P 135740-31-7P 135740-32-8P 135740-33-9P
135740-35-1P 135740-36-2P 135740-37-3P 135740-38-4P
135740-39-5P 135740-41-9P 135740-43-1P 135740-44-2P
135740-46-4P 135770-63-7P **135820-62-1P** 139663-63-1P
142648-25-7P 145168-75-8P 145168-89-4P 145168-94-1P
145169-02-4P 145169-03-5P 145169-04-6P 145169-24-0DP,

carboxy-terminated, ester with 2-hydroxyethyl methacrylate
145807-38-1P 145807-40-5P 145807-51-8P 145807-53-0P
145807-54-1P 145807-55-2P 145807-56-3P 145807-62-1P
145807-63-2P 145807-64-3P 145807-65-4P 145807-66-5P
145807-68-7P 145807-70-1P 145807-71-2P 145807-72-3P
145807-78-9P 145807-80-3P 146188-26-3DP, carboxy-terminated,
ester with 2-hydroxyethyl methacrylate 146817-57-4P
146817-58-5P 146817-61-0P 147524-36-5P 150497-92-0P
151688-53-8P 151688-55-0P
(preparation of, electrophotog. **lithog.** printing plate
from)

L26 ANSWER 12 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:285065 HCAPLUS
DOCUMENT NUMBER: 120:285065
TITLE: Electrophotographic material for **lithographic** plate preparation
INVENTOR(S): Kato, Eiichi; Kasai, Kyosuke
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 66 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 04355456 | A2 | 19921209 | JP 1991-156245 | 19910531 |

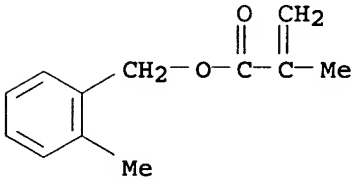
PRIORITY APPLN. INFO.: JP 1991-156245 19910531

AB In the title material having on an elec. conductive support ≥1 photoconductive layer containing at least photoconductive ZnO grains, a spectral sensitizing dye, and a binder resin, the photoconductive layer contains as the binder resin ≥1 kind of resins A and ≥1 kind of nonaq. solvent-dispersed resin grains having a diameter the same as or smaller than that of the photoconductive ZnO grains having the largest grain diameter, the resins A have a weight-average mol. weight 1 x 103-2 x 104 and contain a polymer component (>30%) having repeating monomer units [CHa1CHa2(CO2R3)] (a1, a2 = H, halo, CN, hydrocarbon group; R3 = hydrocarbon group) and a polymer component (0.5-15%) having ≥1 kind of polar groups selected from PO3H2, SO3H, CO2H, P(O)(OH)R1 [R1 = hydrocarbon group, OR2 (R2 = hydrocarbon group)], and cyclic acid anhydride groups, and the nonaq. solvent-dispersed resin grains are obtained by dispersion polymerization, in the presence of the nonaq. solvent-soluble dispersion stabilizing polymer containing at least repeating units containing Si- and/or F-containing substituent, of a monofunctional monomer being soluble in the nonaq. solvent but insol. after polymerization and containing ≥1 functional group which forms ≥1 OH group upon decomposition The material produces **lithog.** plates with good water retentivity and high printing durability, which provides superior printed images even under severe conditions, and is effective for scanning exposure using a semiconductor laser.

IT **135820-62-1P**
(low-mol.-weight, preparation and use of, as binder for photoconductive layers)
RN 135820-62-1 HCAPLUS
CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

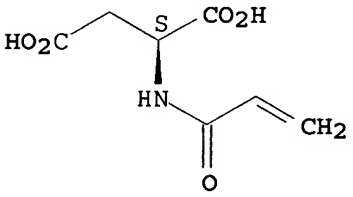
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05
ICS G03G005-05; G03G005-06; G03G005-08; G03G013-28
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog **lithog** plate binder resin; resin grain electrophotog **lithog** plate
IT **Lithographic** plates
(manufacture of, electrophotog. materials for)
IT Siloxanes and Silicones, uses
(methacrylate-terminated, electrophotog. materials containing, for **lithog.** plate preparation)
IT 2358-84-1DP, graft polymer with AK5 and methoxyphenyldioxolanylmethylpropenoic acid 149858-20-8DP, graft polymer with AK5 and diethylene glycol dimethacrylate
150372-99-9P 150373-00-5P 150373-01-6P 150373-02-7P
150373-03-8P 150373-06-1P 150373-07-2P 150373-08-3P
150373-11-8P 150391-00-7P 150391-01-8P 150391-02-9P
150391-87-0P 150958-52-4P 150958-55-7P 150997-02-7P
152730-70-6P 152730-71-7P
(latex, preparation and use of, for binder resin of electrophotog.

**lithog.** plate material)

IT 65697-21-4P 65697-22-5P, Acrylic acid-benzyl methacrylate copolymer 126969-70-8P 126969-78-6P 130094-33-6P 130952-79-3P 131808-63-4P 135740-18-0P 135740-30-6P 135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P 135740-36-2P 135740-37-3P 135740-38-4P 135740-39-5P 135740-41-9P 135740-43-1P 135740-44-2P 135740-46-4P 135770-63-7P **135820-62-1P** 139663-63-1P 142648-25-7P 146817-57-4P 146817-58-5P 146817-61-0P 147524-36-5P
(low-mol.-weight, preparation and use of, as binder for photoconductive layers)

IT 150373-10-7P 150373-12-9P 150373-13-0P 150373-14-1P 150373-15-2P 150373-16-3P 150373-17-4P 150373-18-5P 150373-19-6P 150390-93-5P 150390-94-6P 150390-95-7P 150390-98-0P 150419-15-1P 152730-72-8P
(preparation of, for binder resin of electrophotog. **lithog**. plate material)

L26 ANSWER 13 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:284868 HCAPLUS
DOCUMENT NUMBER: 120:284868
TITLE: Electrophotographic photoreceptor
INVENTOR(S): Kato, Eiichi; Ishii, Kazuo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: PCT Int. Appl., 262 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9220015 | A1 | 19921112 | WO 1992-JP579 | 19920501 |
| W: US | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE | | | | |
| JP 04330448 | A2 | 19921118 | JP 1991-128343 | 19910502 |
| JP 3112698 | B2 | 20001127 | | |
| JP 04355766 | A2 | 19921209 | JP 1991-157432 | 19910603 |
| JP 3112703 | B2 | 20001127 | | |
| JP 05040349 | A2 | 19930219 | JP 1991-221296 | 19910807 |
| JP 3112718 | B2 | 20001127 | | |
| JP 05072754 | A2 | 19930326 | JP 1991-260530 | 19910912 |
| JP 05142794 | A2 | 19930611 | JP 1991-329619 | 19911120 |
| JP 05142796 | A2 | 19930611 | JP 1991-332887 | 19911122 |

| | | | | |
|---|---|---|---|---|
| JP 05281762 | A2 | 19931029 | JP 1992-105252 | 1992 0401 |
| JP 3214672 | B2 | 20011002 | | |
| EP 584359 | A1 | 19940302 | EP 1992-909663 | 1992 0501 |
| EP 584359 | B1 | 19981028 | | |
| R: DE, GB | | | | |
| US 5573879 | A | 19961112 | US 1993-146001 | 1993 1102 |

| | | |
|---|---|---|
| PRIORITY APPLN. INFO.: | JP 1991-128343 | A 1991 0502 |
| | JP 1991-157432 | A 1991 0603 |
| | JP 1991-221296 | A 1991 0807 |
| | JP 1991-260530 | A 1991 0912 |
| | JP 1991-329619 | A 1991 1120 |
| | JP 1991-332887 | A 1991 1122 |
| | JP 1992-105252 | A 1992 0401 |
| | WO 1992-JP579 | W 1992 0501 |

AB In the title electrophotog. photoreceptor utilizing a photoconductor layer containing an inorg. photoconductor, a spectral sensitizer dye, and a binder resin, the binder resin is a blend of Resin (A) and Resin (B). Resin (A) [weight average mol. weight 1 + 103 - 2 + 104] contains the polymer component CHa1Ca2(CO2R) (I) [A1,A2 = H, halo, CN, hydrocarbon moiety, CO2R3, COR3 via a hydrocarbon group; R = hydrocarbyl] ≥30% and a polymer component containing ≥1 type of polar groups [PO3A2, SO3H, CO2H, P(O)(OH)R1 (R1 = hydrocarbon or oxyhydrocarbon), cyclic acid anhydride] 0.5-15%. Resin (B) (weight average mol. weight 3 + 104-1 + 106) is a star-type polymer containing ≥3 polymer chains based on the polymer component of Resin (A) (0.01-10%) containing polar substituents and the polymer component (I) of Resin (A) (≥30%) within an aq mol. The photoreceptor shows improved electrostatic and image pickup characteristics, and is especially useful in the reproduction of precise images using a liquid

developer.

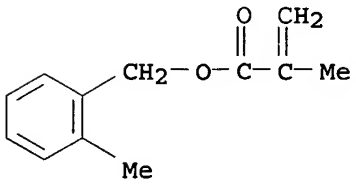
IT **135820-62-1P**
(preparation of, binder resin blend containing)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

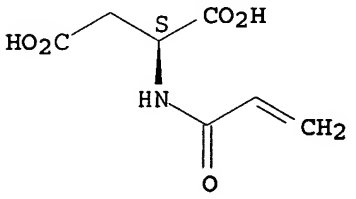
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT **Lithographic** plates
(electrophotog. plates)

IT 9011-14-7DP, Methyl methacrylate homopolymer, carboxylated 28062-47-7DP, carboxy-terminated 31547-85-0DP, carboxy-terminated 65697-21-4P 65697-22-5DP, carboxy-terminated 65697-22-5P 126969-78-6P 130094-33-6P 130952-79-3P 131808-63-4P 135740-18-0P 135740-30-6DP, carboxy-terminated 135740-30-6P 135740-31-7DP, carboxy-terminated 135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P 135740-37-3P 135740-39-5P 135740-41-9P 135740-43-1P 135740-44-2P 135740-46-4P 135740-47-5P 135770-63-7P **135820-62-1P** 137560-69-1DP, carboxy-terminated 138115-34-1DP, Ethyl methacrylate-triphenylmethyl methacrylate block copolymer, hydrolysis product 138232-67-4DP, Benzyl methacrylate-butyl methacrylate block copolymer, reduction product 138232-68-5P, Acrylic acid-phenyl methacrylate block copolymer 141681-05-2DP, hydrolysis product

141681-06-3DP, hydrolysis product 141681-07-4DP, hydrolysis product 141681-08-5DP, hydrolysis product 141681-09-6DP, hydrolysis product 141681-10-9DP, hydrolysis product 141681-11-0DP, hydrolysis product 141681-12-1DP, hydrolysis product 141681-13-2DP, hydrolysis product 141681-14-3DP, hydrolysis product 141681-15-4DP, hydrolysis product 141681-16-5DP, hydrolysis product 141681-17-6DP, hydrolysis product 141725-80-6DP, hydrolysis product 142648-25-7P 146817-57-4P 146817-58-5P 146817-61-0P 147524-36-5P 149093-39-0P 152792-13-7P 152792-16-0DP, hydrolysis product
(preparation of, binder resin blend containing)

L26 ANSWER 14 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:232111 HCAPLUS
DOCUMENT NUMBER: 120:232111
TITLE: Electrophotographic **lithographic** plate material
INVENTOR(S): Kato, Eiichi; Kasai, Kyosuke
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 65 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

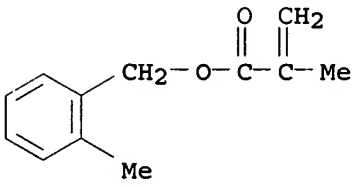
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 04355765 | A2 | 19921209 | JP 1991-157428 | 1991 0603 |
| PRIORITY APPLN. INFO.: | | | JP 1991-157428 | 1991 0603 |

AB In the title material having on an elec. conductive support ≥1 photoconductive layer containing at least a photoconductive ZnO, a spectral sensitizing dye, and a binder resin, the photoconductive layer contains as the binder resin a resin containing ≥1 kind of resins having weight average mol. weight 1 x 103-2 x 104 and containing a polymer component >30% having repeating monomer units [-CHa1-CHa2(CO2R3)-] (a1, a2 = H, halo, CN, hydrocarbon group; R3 = hydrocarbon group) and a polymer component 0.5-15 % having ≥1 kind of polar groups selected from -PO3H2, -SO3H, -CO2H, -P(=O)(OH)R1 [R1 = hydrocarbon group, OR2 (R2 = hydrocarbon group)], and cyclic acid anhydride groups and ≥1 kind of nonaq. solvent-dispersed resin grains having a grain diameter the same as or smaller than that of the photoconductive ZnO grains having the largest grain diameter and which are obtained by dispersion polymerization, in the presence of a dispersion stabilizing polymer which is soluble in the nonaq. solvent, of a monofunctional monomer (c) being soluble in the nonaq. solvent but insol. after polymerization and containing ≥1 functional groups which form ≥1 OH group(s) upon decomposition and a monofunctional monomer (d) copolymerizable with the monomer (c) and containing substituents having Si and/or F. The material produces **lithog.** plates which show good water retentivity and durability and provides superior printed images even under severe conditions and is effective for scanning exposure using a semiconductor laser.

IT **135820-62-1P**
(preparation and use of, as binders for photoconductive layer)
RN 135820-62-1 HCAPLUS
CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

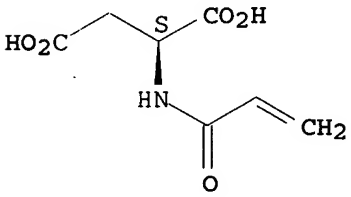
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05
ICS G03G005-05; G03G005-06; G03G005-08; G03G013-28
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog **lithog** plate binder resin; resin grain electrophotog **lithog** plate
IT **Lithographic** plates
(electrophotog., photoconductive layer containing binder resins and resin grains for)
IT 65697-21-4P 65697-22-5P, Acrylic acid-benzyl methacrylate copolymer 126969-70-8P 126969-78-6P 130094-33-6P
130952-79-3P 131808-63-4P 135740-18-0P 135740-30-6P
135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P
135740-38-4P 135740-39-5P 135740-43-1P 135740-44-2P
135770-63-7P **135820-62-1P** 139663-63-1P 142648-25-7P
146817-57-4P 146817-58-5P 146817-61-0P 147524-36-5P
(preparation and use of, as binders for photoconductive layer)

L26 ANSWER 15 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:204532 HCAPLUS
DOCUMENT NUMBER: 120:204532

TITLE: Electrophotographic **lithographic** master
INVENTOR(S): Kato, Eiichi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 67 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 05019496 | A2 | 19930129 | JP 1991-193638 | 19910709 |

PRIORITY APPLN. INFO.: JP 1991-193638 19910709

AB In the title **lithog.** master employing an electrophotog. photoreceptor obtained by coating ≥1 photoconductive layer(s) on an elec. conductive support and coating a surface layer on the uppermost layer, the surface layer contains ≥1 types of nonaq. solvent-dispersed resin particles (L) and the photoconductive layer(s) contains ≥1 resin(s) (A) as binder resin. The above nonaq. solvent-dispersed resin particles are obtained by polymerizing a monofunctional monomer containing ≥1 types of functional group capable of decomposing to yield OH group(s) in the presence of a dispersion-stabilizing resin containing structural repeating units containing Si and (or) F-containing substituents. The above resin (A) (weight average mol. weight 1 + 103 - 2 + 104) contains ≥30% polymer component CHa1Ca2(CO2R) (a1, a2 = H, halo, CN, hydrocarbon group; R = hydrocarbon group) and 0.5-15% polymer component having ≥1 polar group(s) selected from PO3H2, SO3H, CO2H, P(O)(OH)R01 (R01 = hydrocarbon, OR02 (R02 = hydrocarbon)) and cyclic acid anhydride. The above dispersion-stabilizing resin contains polymerizable double bonds. The **lithog.** master gives superior printed copies, and shows good printing performance even under severe conditions, and, furthermore, it is very useful in laser scanning-exposure.

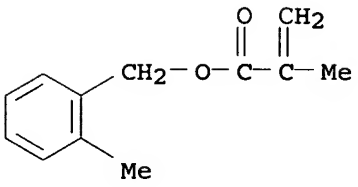
IT **135820-62-1P**
(preparation of, as binder resin)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

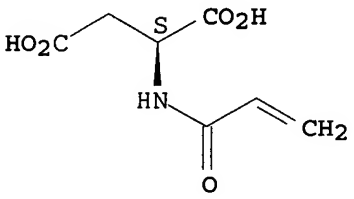
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05
ICS G03G005-06; G03G013-28
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST **lithog** master electrophotog platemaking
IT **Lithographic** plates
(electrophotog. platemaking)
IT Electrophotographic photoconductors and photoreceptors
(for **lithog.** platemaking)
IT Acrylic polymers, uses
(**lithog.** master from)
IT Siloxanes and Silicones, uses
(di-Me, graft polymers, electrophotog. **lithog.** master using)
IT 149858-20-8D, graft copolymer with silicone 150372-99-9
150373-00-5 150373-01-6 150373-02-7 150373-04-9
150373-06-1 150373-07-2 150373-08-3 150373-10-7
150373-11-8 150373-12-9 150373-13-0 150373-14-1
150373-15-2 150373-16-3 150373-17-4 150373-18-5
150373-19-6 150390-93-5 150390-95-7 150390-97-9
150390-98-0 150391-00-7 150391-01-8 150391-81-4
150997-02-7 152250-03-8 152250-04-9 152250-05-0
152250-20-9 152546-48-0
(latex particles of, electrophotog. **lithog.** master using)
IT 65697-21-4P 65697-22-5P, Acrylic acid-benzyl methacrylate copolymer 126969-78-6P 130094-33-6P 130952-79-3P
131808-63-4P 135740-18-0P 135740-30-6P 135740-31-7P
135740-32-8P 135740-33-9P 135740-35-1P 135740-36-2P
135740-37-3P 135740-38-4P 135740-39-5P 135740-41-9P
135740-43-1P 135740-44-2P 135740-46-4P 135770-63-7P
**135820-62-1P** 139663-63-1P 142648-25-7P 146817-57-4P
146817-58-5P 146817-61-0P 147524-36-5P

(preparation of, as binder resin)

L26 ANSWER 16 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:148984 HCAPLUS
DOCUMENT NUMBER: 120:148984
TITLE: Manufacture of **lithographic** printing plate having excellent water-retaining properties
INVENTOR(S): Kato, Eiichi
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 81 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 05100504 | A2 | 19930423 | JP 1991-289414 | 1991 1009 |

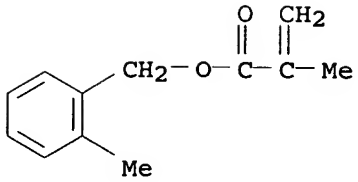
PRIORITY APPLN. INFO.: JP 1991-289414 1991 1009

AB The manufacture of a **lithog.** printing plate, which has ≥1 photoconductor layer on a conductive support and an uppermost surface layer, comprises effecting imagewise exposure of the **lithog.** printing plate containing nonaq. dispersion resin particles in the surface layer and and a binder resin in the photosensitive layer to form a toner image and desensitizing nonimage regions of the photoconductor layer with a solution containing a hydrophilic compound having a Pearson's nucleophilic constant ≥5.5. The nonaq. dispersion resin particles are copolymer particles which are obtained by polymerizing in a nonaq. solvent a monofunctional monomer, which (soluble in the solvent but becoming insol. upon polymerization) contains formyl and/or CH(OA1)(OA2) [A1,2 = hydrocarbyl, organic residues combing together to form a ring], in the presence of a dispersion stabilizing resin made up of a repeating unit containing Si- and/or F-bearing substituent and the binder resin with a weight-average mol. weight 1000-20,000 contains a repeating unit [Ca1HCa2(COOR1)] [a1,2 = H, halo, cyano, hydrocarbyl; R1 = hydrocarbyl] ≥30% and a polymer component 0.5-15% containing ≥1 kind of a polar moiety selected from PO3H2, SO3H, COOH, P(:O)(OH)R2 [R2 = hydrocarbyl, OR3; R3 = hydrocarbyl] and a group containing cyclic anhydride.

IT **135820-62-1P**
(preparation of, for **lithog.** printing plate preparation)
RN 135820-62-1 HCAPLUS
CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

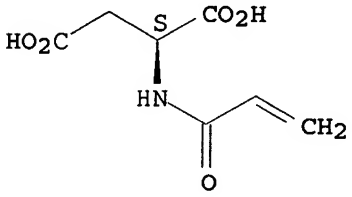
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G013-28
ICS G03G005-05; G03G005-06; G03G005-147
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST **lithog** printing plate manuf; binder resin **lithog** printing plate; dispersion resin particle **lithog** printing
IT **Lithographic** plates
(with excellent water-retaining properties, manufacture of)
IT 65697-21-4P 65697-22-5P 126969-78-6P 130094-33-6P
130952-79-3P 131808-63-4P 135740-18-0P 135740-30-6P
135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P
135740-36-2P 135740-37-3P 135740-38-4P 135740-39-5P
135740-41-9P 135740-43-1P 135740-44-2P 135740-46-4P
135770-63-7P **135820-62-1P** 139663-63-1P 142648-25-7P
145168-75-8P 145168-89-4P 145168-94-1P 145169-02-4P
145169-03-5P 145169-04-6P 145169-24-0P 145169-26-2P
145169-30-8P 145807-38-1P 145807-40-5P 145807-41-6P
145807-51-8P 145807-53-0P 145807-54-1P 145807-55-2P
145807-56-3P 145807-57-4P 145807-63-2P 145807-64-3P
145807-65-4P 145807-66-5P 145807-68-7P 145807-70-1P
145807-71-2P 145807-72-3P 145807-78-9P 145807-80-3P
146188-26-3DP, carboxy-terminated, ester with 2-hydroxyethyl methacrylate 146817-57-4P 146817-58-5P 146817-61-0P
146966-35-0P 147524-36-5P 147545-76-4P 149072-24-2DP, reaction product with 2-isocyanatoethyl methacrylate
149368-83-2P 149368-85-4P 149434-15-1P 149434-21-9P
149434-25-3P 149434-28-6P 149434-33-3P 149658-55-9P
149698-33-9P 149698-34-0P 149698-35-1P 149698-37-3P
149698-38-4P 149698-39-5P 149698-40-8P 149698-42-0P
149698-43-1P 149698-46-4P 149698-47-5P 149698-48-6P
149698-49-7P 149698-50-0P 149698-52-2P 149698-53-3P
149698-54-4P 149698-55-5P 149698-56-6P 149698-57-7P

149698-58-8P 149698-59-9P 149698-60-2P 149698-63-5P
149729-05-5P 149729-07-7P 149729-28-2P 149729-30-6P
149729-31-7P 149729-32-8P 149729-33-9P 149765-50-4P
149934-66-7P 149962-75-4P 151864-21-0P 152586-80-6P
152586-81-7DP, reaction product with acrylamide 153147-24-1P
(preparation of, for **lithog.** printing plate preparation)

L26 ANSWER 17 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:148980 HCAPLUS
DOCUMENT NUMBER: 120:148980
TITLE: Manufacture of **lithographic** plate from electrophotographic photoreceptor
INVENTOR(S): Kato, Eiichi; Kasai, Kyosuke
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 87 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 05061214 | A2 | 19930312 | JP 1991-250310 | 1991 0904 |

PRIORITY APPLN. INFO.: JP 1991-250310 1991 0904

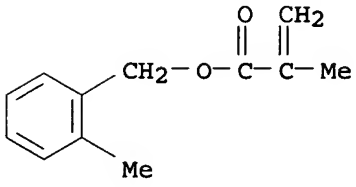
AB The manufacture of a **lithog.** plate from an electrophotog. photoreceptor, which has ≥1 photosensitive layer containing at least photoconductive ZnO grains, a spectral sensitizing dye, and a binder resin on a conductive support, comprises effecting imagewise exposure of the electrophotog. photoreceptor containing the binder resin in the photosensitive layer and ≥1 kind of nonaq. dispersion resin grains having the average grain diameter equal to or smaller than that of the maximum grain diameter of the ZnO grains to form a toner image and effecting desensitization process of nonimage regions by using a solution containing a hydrophilic compound with Pearson's nucleophilic constant ≥5.5;. The binder resin, with weight average mol. weight 1000-20,000, has a repeating unit [CHa1Ca2COOR1] [a1,2 = H, halo, cyano, hydrocarbyl; R1 = hydrocarbyl] as a polymer component ≥30% and another polymer component 0.5-15% containing ≥1 polar moiety selected from PO3H2, SO3H, COOH, and P(:O)(OH)R2 [R2 = hydrocarbyl or OR3; R3 = hydrocarbyl] and a moiety containing a cyclic anhydride group. The nonaq. dispersion resin grains are made of a copolymer obtained through dispersion polymerization of a monofunctional monomer, which contains formyl and/or CH(OA1)(OA2) [A1,2 = hydrocarbyl] and is soluble in the nonaq. solvent but becoming insol. upon polymerization, with a monofunctional monomer containing Si and/or F.

IT **135820-62-1P**
(preparation of, for electrophotog. photoreceptor for **lithog**. plate preparation)

RN 135820-62-1 HCAPLUS
CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

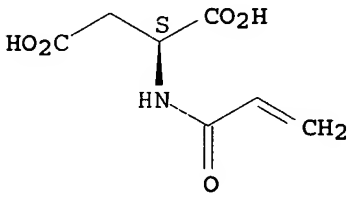
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05
ICS G03G005-05; G03G005-06; G03G005-08; G03G013-28
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog **lithog** printing plate manuf
IT **Lithographic** plates
(electrophotog. materials for manufacture of)
IT 79-41-4D, fluoroalykl derivative, polymer with methacrylates 97-90-5D, polymer with methacrylates 106-91-2D, polymer with methacrylates 142-09-6D, polymer with methacrylates 139288-11-2D, polymers with methacrylates
(electrophotog. photoreceptor containing, for **lithog.** plate preparation)
IT 25719-51-1DP, 2-Ethylhexyl methacrylate homopolymer, carboxy-terminated, ester with 2-hydroxyethyl methacrylate 52229-66-0P 65697-21-4P 65697-22-5P 126969-78-6P 130094-33-6P 130952-79-3P 131808-63-4P 135740-18-0P 135740-30-6P 135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P 135740-36-2P 135740-37-3P 135740-38-4P 135740-39-5P 135740-41-9P 135740-43-1P 135740-44-2P 135740-46-4P 135770-63-7P **135820-62-1P** 139645-92-4P 139663-63-1P 142648-25-7P 145807-49-4P 146817-57-4P 146817-58-5P 146817-61-0P 147130-23-2P 147524-36-5P 149072-21-9DP, reaction product with allylamine 149093-90-3DP, reaction product with isocyanoethyl methacrylate 149234-56-0P 149234-57-1P 149234-58-2P 149234-59-3P 149234-60-6P 149234-61-7P 149234-63-9DP, reaction product with

2-isocyanatoethyl methacrylate 149235-47-2P 149235-75-6P
149265-77-0P 149295-65-8P 149295-66-9P 149295-67-0P
149368-81-0P 149368-84-3P 149433-97-6P 149433-98-7P
149433-99-8P 149434-02-6P 149434-04-8P 149434-06-0P
149434-09-3P 149434-10-6P 149434-11-7P 149434-17-3P
149434-22-0P 149434-38-8P 152640-58-9P 152640-60-3P
152640-61-4P 152640-62-5P 152640-64-7P 152681-23-7P
152681-24-8P 152681-25-9P 152681-27-1P 152681-47-5P
152681-48-6P 152725-66-1P 152725-67-2P 152725-68-3P
152725-69-4P 152725-70-7P 152725-71-8P 152725-72-9P
152725-73-0P 152725-74-1P 152725-75-2P 152725-76-3P
152725-77-4P 152725-78-5P 153014-29-0P
(preparation of, for electrophotog. photoreceptor for **lithog**. plate preparation)

L26 ANSWER 18 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:148870 HCAPLUS
DOCUMENT NUMBER: 120:148870
TITLE: Electrophotographic **lithographic** master
INVENTOR(S): Kato, Eiichi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 69 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 05019498 | A2 | 19930129 | JP 1991-197308 | 19910712 |

PRIORITY APPLN. INFO.: JP 1991-197308 19910712

AB In the title **lithog.** master comprising on an elec. conductive support ≥1 photoelec. conductive layers(s) and a surface layer on the uppermost photoelec. conductive layer, the surface layer contains ≥1 types of nonaq. solvent-dispersed resin particles (L) and the photoconductive layer contains ≥1 resin(s) (A) as binder resin. The above nonaq. solvent-dispersed resin particles are obtained by dispersion polymerizing a monofunctional monomer (C) containing ≥1 functional groups selected from W1(CH2)n1CH:CH2 and W2(CH2)n2CH2CH2X (W1, W3 = SO2, CO, OOC; n1, n2 = 0, 1; X = halo) in the presence of a nonaq. solvent-soluble dispersion-stabilizing resin(P) containing Si and(or) F-containing structure-repeating units. The above resin (A) (weight average mol. weight 1 + 103 - 2 + 104) contains polymer component CHa1Ca2(CO2R) (a1, a2 = H, halo, CN, hydrocarbon; R = hydrocarbon) ≥ 30% and polymer component having ≥1 polar group(s) selected from PO3H2, SO3H, CO2H, P(O)(OH)R01[R01 = hydrocarbon, OR02 (R02 = hydrocarbon)] and cyclic acid anhydride 0.5-15%. The dispersion-stabilizing resin (P) contains polymerizable double bonds. The **lithog.** master gives superior printed copies, and shows good printing performance even under severe conditions, and, furthermore, it is very useful in

laser scanning-exposure.

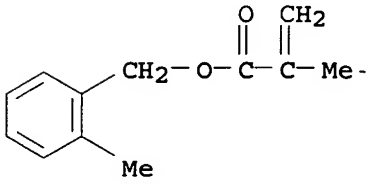
IT **135820-62-1P**
(preparation of, as binder resin)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

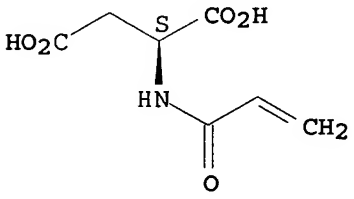
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05
ICS G03G005-06; G03G013-28

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST **lithog** master electrophotog platemaking

IT **Lithographic** plates
(electrophotog. platemaking)

IT Electrophotographic photoconductors and photoreceptors
(for **lithog.** platemaking)

IT Acrylic polymers, uses
(**lithog.** master from)

IT 152248-07-2 152248-09-4 152250-28-7 152250-29-8
152250-31-2 152250-32-3 152250-33-4 152250-35-6
152250-37-8 152250-38-9 152250-40-3 152250-41-4
152250-42-5 152250-43-6 152250-44-7 152250-45-8
152250-46-9 152250-47-0 152250-48-1 152250-49-2
152250-74-3 152250-76-5 152250-77-6 152250-78-7
152250-79-8 152250-80-1 152250-81-2 152250-83-4
152272-08-7 152272-10-1 152272-43-0 152545-99-8
(latex particles of, electrophotog. **lithog.** master

using)
IT 65697-21-4P 65697-22-5P, Acrylic acid-benzyl methacrylate copolymer 126969-78-6P 130094-33-6P 130952-79-3P
131808-63-4P 135740-18-0P 135740-30-6P 135740-31-7P
135740-32-8P 135740-33-9P 135740-35-1P 135740-36-2P
135740-37-3P 135740-38-4P 135740-39-5P 135740-41-9P
135740-43-1P 135740-44-2P 135740-46-4P 135770-63-7P
**135820-62-1P** 139663-63-1P 142648-25-7P 146817-57-4P
146817-58-5P 146817-61-0P 147524-36-5P
(preparation of, as binder resin)

L26 ANSWER 19 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:120795 HCAPLUS
DOCUMENT NUMBER: 120:120795
TITLE: Electrophotographic **lithographic** printing plate giving high sensitivity to semiconductor laser scanning method
INVENTOR(S): Kato, Eiichi; Kasai, Kyosuke
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 74 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

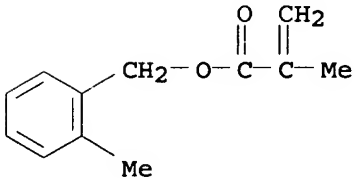
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 05034948 | A2 | 19930212 | JP 1991-213047 | 1991 0731 |
| PRIORITY APPLN. INFO.: | | | JP 1991-213047 | 1991 0731 |

AB In an electrophotog. **lithog.** printing plate having ≥1 photoconductor layer containing a photoconductive ZnO, a spectral sensitizing dye and a binder resin, the photoconductor layer contains ≥1 following binder resin (A) and ≥1 kind of nonaq. dispersion resin particles (B) whose average grain diameter is smaller than or equal to the maximum grain diameter of the photoconductive ZnO particles:. The binder resin (A) contains a repeating unit [a1HCCa2(COOR3)] [a1,2 = H, halo, cyano, hydrocarbon; R3 = hydrocarbon] having weight average mol. weight 1,000-20,000 as a polymer component ≥30% and further contains another polymer component 0.5-1% containing ≥1 polar moiety selected from PO3H2, SO3H, COOH, P(:O)(OH)R1 [R1 = hydrocarbon, OR2; R2 = hydrocarbon], and a group containing a cyclic anhydride. The nonaq. dispersion resin particles (B) are made of a copolymer obtained by dispersion polymerization of a monofunctional monomer (C) with a monofunction monomer (D) in the presence of a dispersion-stabilizing resin soluble in the nonaq. solvent, in which the monofunctional monomer (C) contains W1(CH2)n1HC:CH2 and/or W2(CH2)n2CH2CH2X [W1,2 = SO2, CO, OCO; n1, n2 = 0, 1; and X = halo] and is soluble in the nonaq. solvent but becoming insol. upon polymerization and the monofunctional monomer (D) contains a substituent containing Si and/or F.
IT **135820-62-1P**
(preparation of, electrophotog. **lithog.** printing plate

from)
RN 135820-62-1 HCAPLUS
CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

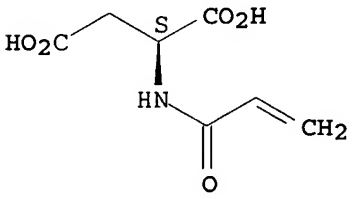
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05
ICS G03G005-05; G03G005-06; G03G005-08; G03G013-28
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog **lithog** printing plate; binder resin
electrophotog **lithog** printing; photoconductor layer
electrophotog **lithog** printing
IT **Lithographic** plates
(electrophotog., binder resins for)
IT 79-41-4DP, fluoroalkyl derivative, polymers with allyl Et sulfone and methacrylates 97-90-5DP, polymers with allyl Et sulfone and methacrylates 106-91-2DP, polymers with allyl Et sulfone and methacrylates 142-09-6DP, polymers with allyl Et sulfone and methacrylates 149839-06-5DP, polymers with methacrylates
151733-27-6P 151733-28-7P 151733-29-8P 151733-30-1P
151733-31-2P 151733-32-3P 151733-33-4P 151733-34-5P
151733-35-6P 151735-81-8P 151752-65-7P 151752-80-6P
151752-81-7P 151752-82-8P 151752-83-9P 151752-84-0P
151752-85-1P 151758-71-3P 151758-72-4P 151758-73-5P
151758-74-6P 151758-75-7P 151758-77-9P 151758-79-1P
151758-81-5P 151758-82-6P 151758-83-7P 151758-84-8P
151767-53-2P 151767-55-4P 151813-68-2P 151835-58-4P

152751-59-2P 152776-26-6P
(preparation and use of, electrophotog. **lithog.** printing plate from)

IT 25719-51-1DP, 2-Ethylhexyl methacrylate homopolymer, carboxy-terminated, ester with glycidyl methacrylate 52229-66-0P 65697-21-4P 65697-22-5P 126969-70-8P 126969-78-6P 130094-33-6P 130952-79-3P 131808-63-4P 135740-18-0P 135740-30-6P 135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P 135740-36-2P 135740-37-3P 135740-38-4P 135740-39-5P 135740-41-9P 135740-43-1P 135740-44-2P 135740-46-4P 135770-63-7P **135820-62-1P** 139663-63-1P 142648-25-7P 145807-49-4P 146817-57-4P 146817-58-5P 146817-61-0P 147130-23-2P 147524-36-5P 149072-21-9DP, reaction product with allylamine 149234-63-9DP, reaction product with 2-isocyanatoethyl methacrylate 149235-47-2P 149368-81-0P 149368-84-3P 149433-97-6P 149433-98-7P 149433-99-8P 149434-01-5P 149434-02-6P 149434-04-8P 149434-06-0P 149434-09-3P 149434-10-6P 149434-11-7P 149434-17-3P 149434-22-0P 149434-38-8P
(preparation of, electrophotog. **lithog.** printing plate from)

L26 ANSWER 20 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:41999 HCAPLUS
DOCUMENT NUMBER: 120:41999
TITLE: Electrophotographic **lithographic** printing plate giving high sensitivity to semiconductor laser scanning method
INVENTOR(S): Kato, Eiichi; Kasai, Kyosuke
PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 84 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 05034949 | A2 | 19930212 | JP 1991-213049 | 19910731 |
| PRIORITY APPLN. INFO.: | | | JP 1991-213049 | 19910731 |

AB In an electrophotog. **lithog.** plate having ≥1 photoconductor layer containing photoconductive ZnO grains, a spectral sensitizing dye and a binder resin with the photoconductor layer containing ≥1 following binder resin (A) and ≥1 kind of nonaq. dispersion resin particles (L) whose average grain diameter is smaller than or equal to the maximum grain diameter of the photoconductive ZnO particles, a toner image is formed on the photoreceptor by imagewise exposure following elec. charging, and nonimage regions of the photoconductor layer are desensitized with a hydrophilic compound-containing solution having Pearson's nucleophilic constant ≥5.5:. The binder resin (A) (weight average mol. weight 1,000-20,000) contains a repeating unit [a1HC-Ca2(COOR3)] [a1,2 = H, halo, cyano, hydrocarbon; R3 = hydrocarbon] as a polymer

component ≥30% and further contains a polymer component 0.5-15% having ≥1 polar moiety selected from PO3H2, SO3H, COOH, P(:O)(OH)R1 [R1 = hydrocarbon, OR2; R2 = hydrocarbon], and group containing cyclic anhydride. The nonaq. dispersion resin particles (L) are made of a copolymer obtained by dispersion polymerization of a monofunctional monomer (C) in the presence of a dispersion stabilizing resin, which, soluble in a nonaq. solvent, contains a repeating unit containing a moiety having Si and/or F, in which the monofunctional monomer (C), which, soluble in the nonaq. solvent but insol. upon polymerization, contains ≥1 functional group from formyl and/or HC(OA1)(OA2) [A1,2 = hydrocarbon; or may form a cyclic residue by combining together].

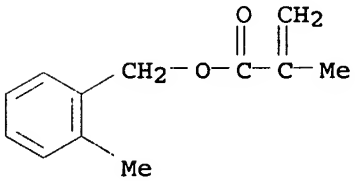
IT **135820-62-1P**
(preparation of, electrophotog. **lithog.** printing plate from)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

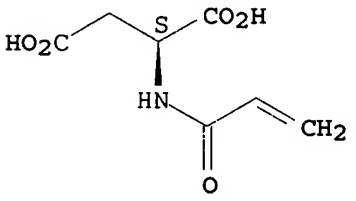
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05
ICS G03G005-05; G03G005-06; G03G005-08; G03G013-28

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST electrophotog **lithog** printing plate; binder resin electrophotog **lithog** printing; photoconductor layer electrophotog **lithog** printing

IT **Lithographic** plates

(electrophotog., binder resins for)
IT 65697-21-4P 65697-22-5P 126969-70-8P 126969-78-6P
130094-33-6P 130952-79-3P 131808-63-4P 135740-18-0P
135740-30-6P 135740-31-7P 135740-32-8P 135740-33-9P
135740-35-1P 135740-36-2P 135740-37-3P 135740-38-4P
135740-39-5P 135740-41-9P 135740-43-1P 135740-44-2P
135740-46-4P 135770-63-7P **135820-62-1P** 139663-63-1P
142648-25-7P 145168-75-8P 145168-89-4P 145168-94-1P
145169-02-4P 145169-03-5P 145169-04-6P 145169-24-0P
145169-30-8P 145807-38-1P 145807-40-5P 145807-51-8P
145807-53-0P 145807-54-1P 145807-55-2P 145807-56-3P
145807-62-1P 145807-63-2P 145807-64-3P 145807-65-4P
145807-66-5P 145807-68-7P 145807-70-1P 145807-71-2P
145807-72-3P 145807-78-9P 145807-80-3P 146188-26-3DP,
carboxy-terminated, ester with 2-hydroxyethyl methacrylate
146817-57-4P 146817-58-5P 147524-36-5P 149072-24-2DP,
reaction product with 2-isocyanatoethyl methacrylate
149368-83-2P 149368-85-4P 149434-15-1P 149434-25-3P
149434-28-6P 149434-33-3P 149658-55-9P 149698-39-5P
149698-40-8P 149698-42-0P 149698-43-1P 149698-46-4P
149698-47-5P 149698-48-6P 149698-49-7P 149698-50-0P
149698-51-1P 149698-52-2P 149698-54-4P 149698-55-5P
149698-56-6P 149698-57-7P 149698-58-8P 149698-59-9P
149698-60-2P 149729-05-5P 149729-06-6P 149729-30-6P
149729-31-7P 149729-32-8P 149729-33-9P 149765-50-4P
149934-66-7P 150103-52-9P 150497-92-0P 151688-53-8P
151688-55-0P 151709-96-5P 151709-97-6P 151754-98-2P
151754-99-3P 151755-00-9P 151755-01-0P 151755-02-1P
151755-03-2P 151755-05-4P 151755-06-5P 151755-07-6P
151864-21-0P 152103-17-8P
(preparation of, electrophotog. **lithog.** printing plate from)

L26 ANSWER 21 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:19181 HCAPLUS
DOCUMENT NUMBER: 120:19181
TITLE: Electrophotographic plate for **lithographic** platemaking
INVENTOR(S): Kato, Eiichi; Kasai, Kiyosuke; Yamazaki, Hirohisa
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 52 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 04274433 | A2 | 19920930 | JP 1991-57644 | 19910301 |

PRIORITY APPLN. INFO.: JP 1991-57644 19910301

AB In the title electrophotog. plate obtained by coating an elec. conductive support with ≥1 photoconductive layer(s) containing

photoconductive ZnO and a binder resin, the above photoconductive layer contains ≥1 resin(s) (A) as the above binder resin and ≥1 types of nonaq. solvent-dispersed resin particles of particle size equal to or smaller than that of the largest ZnO particles. The above resin (A) (mol. weight 1 + 103-2 + 104) contains the monomer component CHa1:Ca2CO2R (a1, a2 = H, halo, CN, hydrocarbon group; R = hydrocarbon group) ≥30% and polymer component containing ≥1 polar group(s) PO3H2, SO3H, CO2H, P(O)(OH)R01 [R01 = hydrocarbon, OR02 (R02 = hydrocarbon group)] and a cycloacid anhydride 0.5-15%. The above nonaq. solvent-dispersed resin particles are obtained by dispersing and allowing to copolymerize a functional monomer (C) with (D) in the presence of a nonaq. solvent-soluble dispersion stabilizing resin; the above monomer (C) containing ≥1 polar groups selected from CO2H, SO3H, sulfino, phosphono group. P(O)(OH)R0 [R0 = hydrocarbon, OR10 (R10 = hydrocarbon group)], OH, formyl, amido, CN, NH2, cyclic acid anhydride-containing group, and N-containing heterocyclic group, and the above monomer (D) containing a Si- and(or) F-containing group. The diffusion-stabilizing resin used contains polymerizable double bonds. The title printing plate gives superior printed copies, and shows good printing performance even under severe conditions, and the electrophotog. plate is very useful for laser scanning-exposure.

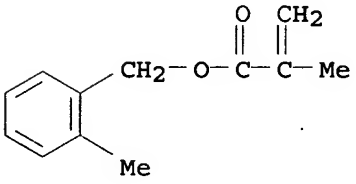
IT **135820-62-1P**
(preparation of, electrophotog. **lithog.** plate from)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

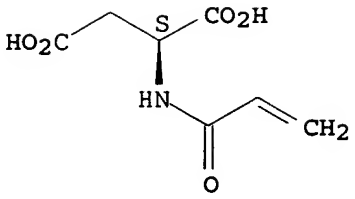
CRN 91990-22-6
CMF C12 H14 O2




CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05
ICS G03G005-05; G03G005-08; G03G013-28
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog plate **lithog** master
IT **Lithographic** plates
(electrophotog. plates for making)
IT Electrophotographic photoconductors and photoreceptors
(for **lithog.** plates, laser scanning-exposure)
IT 65697-21-4P 65697-22-5P, Acrylic acid-benzyl methacrylate copolymer 126969-78-6P 130094-33-6P 130952-79-3P
131808-63-4P 135740-18-0P 135740-30-6P 135740-31-7P
135740-32-8P 135740-33-9P 135740-35-1P 135740-37-3P
135740-38-4P 135740-39-5P 135740-41-9P 135740-43-1P
135740-44-2P 135740-46-4P 135770-63-7P **135820-62-1P**
139645-92-4P 139663-63-1P 146817-57-4P 146817-58-5P
146817-61-0P 147524-36-5P 151481-78-6P
(preparation of, electrophotog. **lithog.** plate from)
IT 407-47-6D, polymer with acrylic acid and macromonomer
1996-88-9D, polymer with acrylic acid and macromonomer
2160-89-6D, polymer with acrylic acid and macromonomer
3063-94-3D, polymer with acrylic acid and macromonomer
18151-85-4D, polymer with acrylic acid and macromonomer
27905-45-9D, polymer with acrylic acid and macromonomer
36405-47-7D, polymer with acrylic acid and macromonomer
45168-50-1D, polymer with acrylic acid and macromonomer
130243-51-5D, polymer with acrylic acid and macromonomer
146187-79-3D, polymer with acrylic acid and macromonomer
146187-85-1D, polymer with acrylic acid and macromonomer
146187-87-3D, polymer with acrylic acid and macromonomer
151481-83-3D, polymer with acrylic acid and macromonomer
(resin particles for electrophotog. **lithog.** master)
IT 123997-17-1, AB 6
(resin particles from, electrophotog. **lithog.** master from)
IT 127120-88-1, AA 2
(resin particles from, electrophotog. **lithog.** master using)
IT 147858-35-3 151590-71-5 151590-72-6 151590-73-7
151590-74-8 151590-75-9 151590-76-0 151590-77-1
151590-78-2 151590-79-3
(resin particles, electrophotog. **lithog.** master using)
IT 79-06-1, 2-Propenamide, uses 151481-79-7
(resin particles, for electrophotog. **lithog.** master)

L26 ANSWER 22 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:682268 HCAPLUS
DOCUMENT NUMBER: 119:282268
TITLE: Electrophotographic **lithographic**

plate material
INVENTOR(S): Kato, Eiichi; Ishii, Kazuo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 52 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 04342261 | A2 | 19921127 | JP 1991-114632 | 1991 0520 |

PRIORITY APPLN. INFO.: JP 1991-114632 1991 0520

AB In the title material having on an elec. conductive support ≥1 photoconductive layer and a surface layer, the photoconductive layer contains a sensitizing dye and a binder resin containing ≥1 kind of resins having a weight average mol. weight 1 x 103-2 x 104 and containing a polymer component >30% having repeating monomer units [CHa1CHa2(CO2R3)] (a1, a2 = H, halo, CN, hydrocarbon group; R3 = hydrocarbon group) and a polymer component 0.5-15 % having ≥1 kind of polar groups selected from -PO3H2, -SO3H, -CO2H, -P(:O)OHR1 [R1 = hydrocarbon group, OR2 (R2 = hydrocarbon group)], and cyclic acid anhydride groups and the surface layer contains ≥1 kind of resin particles dispersed in a nonaq. solvent obtained by dispersion polymerization in the presence of a dispersion stabilizing polymer soluble in the nonaq. solvent, of ≥1 kind of monofunctional monomers which are soluble in the nonaq. solvent but whose polymers are insol. in the nonaq. solvent and containing ≥1 kind of functional groups which form a OH group upon decomposition The material gives **lithog.** plates which provide superior printed images even under severe conditions and shows high durability and are effective for scanning exposure using a semiconductor laser.

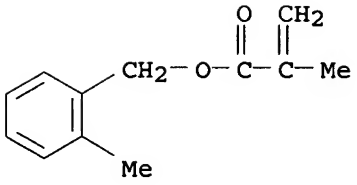
IT **135820-62-1P**
(preparation of, as binder resin for electrophotog. **lithog**. plate material)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

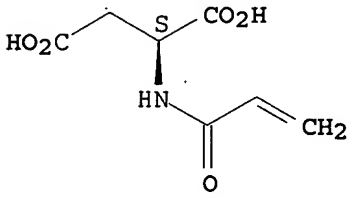
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-06
ICS G03G005-05; G03G013-28
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog **lithog** plate binder resin; surface layer electrophotog **lithog** plate
IT **Lithographic** plates
(electrophotog., photoconductive layer binder resins and surface layer resin particles for)
IT 25086-15-1, Methacrylic acid-methyl methacrylate copolymer 25135-39-1, Acrylic acid-ethyl acrylate-methyl methacrylate copolymer
(binders, electrophotog. **lithog.** plate material with photoconductive layer containing)
IT 150303-40-5P 150303-41-6P 150303-42-7P 150303-44-9P 150303-51-8P 150321-38-3P 150321-69-0P 150321-70-3P 150321-71-4P 150321-72-5P 150321-73-6P 150321-78-1P 150321-80-5P 150321-81-6P 150321-82-7P 150344-25-5P 151205-81-1P 151205-82-2P 151205-84-4P 151205-85-5P 151277-26-8P 151681-80-0P
(latex, preparation and use of, as surface layer resin for electrophotog. **lithog.** plate material)
IT 150303-45-0P 150303-46-1P 150303-47-2P 150303-48-3P 150303-49-4P 150303-50-7P 150303-52-9P 150343-40-1P 150529-44-5P 151205-71-9P 151270-62-1P
(latex, preparation of, as surface layer resin for electrophotog. **lithog.** plate material)
IT 65697-21-4P 65697-22-5P, Acrylic acid-benzyl methacrylate copolymer 126969-70-8P 126969-78-6P 130952-79-3P 131808-63-4P 135740-18-0P 135740-30-6P 135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P 135740-36-2P 135740-39-5P 135740-41-9P 135740-43-1P 135740-44-2P 135740-46-4P 135770-63-7P 137285-53-1P 146817-57-4P

146817-58-5P 146817-60-9P 151264-22-1P 151264-24-3P
(preparation and use of, as binder resin for electrophotog. **lithog.** plate material)
IT 135740-37-3P **135820-62-1P** 139663-63-1P 142648-25-7P
(preparation of, as binder resin for electrophotog. **lithog**. plate material)

L26 ANSWER 23 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:613948 HCAPLUS
DOCUMENT NUMBER: 119:213948
TITLE: Electrophotographic **lithographic** printing plate
INVENTOR(S): Kato, Eiichi; Kasai, Seishi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: PCT Int. Appl., 242 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9218906 | A1 | 19921029 | WO 1992-JP465 | 19920413 |
| W: US | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE | | | | |
| JP 04314056 | A2 | 19921105 | JP 1991-106511 | 19910412 |
| JP 3112176 | B2 | 20001127 | | |
| JP 04362648 | A2 | 19921215 | JP 1991-165249 | 19910611 |
| JP 04362649 | A2 | 19921215 | JP 1991-165250 | 19910611 |
| JP 05034946 | A2 | 19930212 | JP 1991-207237 | 19910725 |
| JP 3112178 | B2 | 20001127 | | |
| EP 535251 | A1 | 19930407 | EP 1992-908530 | 19920413 |
| EP 535251 | B1 | 19970730 | | |
| R: DE, GB | | | | |
| US 5294507 | A | 19940315 | US 1992-990338 | 19921214 |

PRIORITY APPLN. INFO.: JP 1991-106511 A 19910412
JP 1991-165249 A 19910611
JP 1991-165250 A

1991
0611

JP 1991-207237 A
1991
0725

WO 1992-JP465 W
1992
0413

AB An electrophotog. **lithog.** printing plate having a photoconductive layer prepared by the dispersion polymerization of a resin (A) composed of polymer component with specified repeating units and a polar polymer component and having an average mol. weight of 1,000-20,000 and a monomer (C) with a functional group yielding, when decomposed, at least one group selected among thiol, sulfo, amino, and (Z0:)PR(Z0-H) [Z0 = O, S; R = Z0-H, hydrocarbon, Z0-R1 (R1 = hydrocarbon)] in the presence of a dispersion stabilizing resin soluble in a nonaq. solvent, said layer further containing dispersed resin particles (L) having Si- and/or F-containing substituents. This plate has good electrophotog. qualities and H2O retentivity in virtue of appropriate interactions among Zn oxide, a spectral sensitizer, the resin (A) and the resin particle (L), and gives excellent printed images with a high resistance to abrasion on the press even under severe conditions. Also, it works effectively in the scanning exposure using semiconductor laser beams.

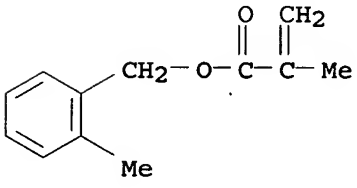
IT **135820-62-1P**
(preparation of, electrophotog. **lithog.** printing plate from)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

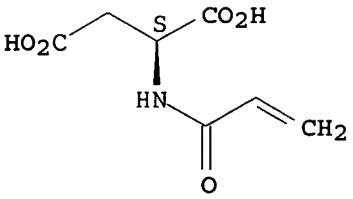
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog **lithog** printing plate
IT **Lithographic** plates
(electrophotog., photoconductive layer of)
IT 149212-64-6P 149212-66-8P 149212-68-0P 149212-70-4P
149212-71-5P 149212-73-7P 149212-74-8P 149212-75-9P
149212-76-0P 149212-77-1P 149212-78-2P 149212-79-3P
149212-80-6P 149212-81-7P 149212-83-9P 149212-84-0P
149212-85-1P 149212-86-2P 149212-87-3P 149212-88-4P
149212-89-5P 149212-90-8P 149234-20-8P 149234-30-0P
149234-31-1P 149234-33-3P 149234-35-5P 149234-37-7P
149234-39-9P 149234-41-3P 149234-42-4P 149234-44-6P
149234-45-7P 149234-47-9P 149234-48-0P 149234-49-1P
149234-50-4P 149234-51-5P 149234-52-6P 149234-54-8P
149234-56-0P 149234-57-1P 149234-58-2P 149234-59-3P
149234-60-6P 149234-61-7P 149234-64-0P 149234-65-1P
149234-66-2P 149234-67-3P 149234-68-4P 149234-69-5P
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149235-83-6P 149265-77-0P 149275-06-9P 149295-65-8P
149295-66-9P 149295-67-0P 149295-69-2P 149295-70-5P
149295-71-6P 149295-72-7P 149295-73-8P 149295-74-9P
149295-75-0P 149295-76-1P 149295-77-2P 149295-78-3P
149295-79-4P 149295-80-7P 149295-81-8P 149295-86-3P
149333-66-4P 149545-01-7P
(preparation and use of, electrophotog. **lithog.** printing plate from)
IT 9011-14-7DP, Methyl methacrylate homopolymer, carboxy-terminated
25719-51-1DP, carboxy-terminated, ester with 2-hydroxyethyl methacrylate 52229-66-0P 65697-21-4P, Benzyl methacrylate-methacrylic acid copolymer 65697-22-5P
126969-78-6P 128338-04-5P 128338-05-6P, Benzyl methacrylate-thiosalicylic acid telomer 130094-33-6P
130952-79-3P 131808-63-4P 135740-18-0P 135740-30-6P
135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P
135740-37-3P 135740-38-4P 135740-39-5P 135740-41-9P
135740-43-1P 135740-44-2P 135740-46-4P 135740-47-5P
135770-63-7P **135820-62-1P** 138059-26-4P 138059-27-5P
138059-28-6P 138059-30-0P 138059-31-1P 138059-32-2P
138059-33-3P 138059-34-4P 138059-35-5P 138059-36-6P
138123-83-8DP, carboxy-terminated 139357-81-6P 139645-92-4P
139989-86-9P 142199-53-9P 142648-25-7P 145168-75-8P
145168-89-4P 145168-94-1P 145169-02-4P 145169-03-5P
145169-04-6P 145169-26-2P 145169-30-8P 145807-40-5P
145807-41-6P 145807-49-4P 145807-51-8P 145807-53-0P
145807-54-1P 145807-55-2P 145807-56-3P 145807-57-4P
145807-62-1P 145807-63-2P 145807-65-4P 145807-66-5P
145807-68-7P 145807-70-1P 145807-71-2P 145807-72-3P
145807-78-9P 145807-80-3P 146188-26-3DP, carboxy-terminated,

ester with 2-hydroxyethyl methacrylate 146716-90-7P
146716-92-9P 146717-07-9P 146817-57-4P 146817-58-5P
146817-61-0P 147130-23-2P 147524-36-5P 149072-19-5P
149072-21-9DP, allyl amide 149072-24-2DP, reaction product with
2-isocyanatoethyl methacrylate 149093-39-0P 149234-62-8P
149234-63-9DP, reaction product with 2-isocyanatoethyl
methacrylate 149235-47-2P 149265-78-1P 149265-79-2P
149265-80-5P 149265-82-7P 149265-84-9P 149265-85-0P
149265-87-2P 149265-89-4P 149295-26-1P 149368-81-0P
149368-83-2P 149368-84-3P 149433-97-6P 149433-98-7P
149433-99-8P 149434-00-4P 149434-01-5P 149434-02-6P
149434-03-7P 149434-04-8P 149434-06-0P 149434-09-3P
149434-10-6P 149434-11-7P 149434-15-1P 149434-17-3P
149434-21-9P 149434-22-0P 149434-24-2P 149434-25-3P
149434-28-6P 149434-33-3P 149434-35-5P 149434-38-8P
149658-55-9P
(preparation of, electrophotog. **lithog.** printing plate
from)

L26 ANSWER 24 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:591876 HCAPLUS
DOCUMENT NUMBER: 119:191876
TITLE: Electrophotographic plates for **lithographic** master
INVENTOR(S): Kato, Eiichi; Ishii, Kazuo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 61 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 04311963 | A2 | 19921104 | JP 1991-79282 | 19910411 |
| JP 2980714 | B2 | 19991122 | | |
| PRIORITY APPLN. INFO.: | | | JP 1991-79282 | 19910411 |

AB In the title electrophotog. plate obtained by forming on a conductive support ≥1 photoconductive layers containing photoconductive ZnO, spectral sensitizer dye, and a claimed binder resin, the photoconductor layer contains nonaq. solvent-dispersed resin particles of particle size equal to a less than that that of the ZnO particles of maximum diameter The claimed binder resin (weight average mol. weight 1 + 103-2 + 104) contains the polymer component CHa1Ca2(CO2R) [a1,a2 = H, halo, CN, hydrocarbon groups; R = hydrocarbon group] ≥30% and a polymer component 0.5-20% containing ≥1 polar substituents selected from PO3H2, SO3H, CO2H, P(O)(OH)R1 (R1 = hydrocarbon, OR2, R2 = hydrocarbon group), and cyclic acid anhydride. The nonaq. solvent-dispersed resin particles are obtained by polymerizing in the presence of a dispersion-stabilizing resin a monofunctional monomer(s) producing on decomposition OH, H2PO3, NH2, or P(O)(OH)R3 (R3 = hydrocarbon or oxyhydrocarbon). The above dispersion-stabilizing resin contains

C:C double bonds in its polymer chain. The electrophotog. plate yields **lithog.** plates capable of withstanding serves conditions to produce high-quality copies.

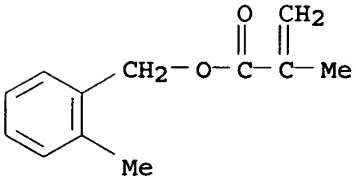
IT **135820-62-1P**
(preparation of, as binder resin)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

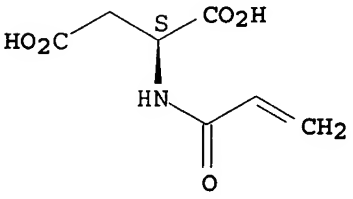
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-06
ICS G03G005-05; G03G013-28

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST electrophotog **lithog** plate resin

IT **Lithographic** plates
(electrophotog., resins for)

IT Electrophotographic photoconductors and photoreceptors
(for **lithog.** masters, resins for)

IT 149235-60-9 149235-63-2 149235-64-3 149235-65-4
149235-66-5 149235-67-6 149235-68-7 149235-69-8
149235-70-1 149235-73-4 149235-84-7 149275-11-6
149275-12-7 149478-77-3 149512-92-5 149512-93-6
149512-94-7 149512-95-8 149512-96-9 149512-97-0
149512-98-1 149512-99-2 149544-80-9 150321-27-0
150321-28-1 150321-29-2 150321-58-7 150321-59-8
150321-60-1 150321-61-2 150321-62-3 150321-63-4
150321-64-5 150321-65-6 150321-66-7 150321-67-8

150321-68-9 150343-39-8 150528-42-0
(latex particles of, electrophotog. **lithog.** master using)
IT 65697-21-4P 65697-22-5P 126969-78-6P 130094-33-6P
130952-79-3P 131808-63-4P 135740-30-6P 135740-31-7P
135740-32-8P 135740-33-9P 135740-35-1P 135740-36-2P
135740-37-3P 135740-38-4P 135740-39-5P 135740-41-9P
135740-43-1P 135740-44-2P 135740-46-4P 135770-63-7P
**135820-62-1P** 139663-63-1P 142648-25-7P 146817-57-4P
146817-58-5P 146817-61-0P 147524-32-1P 147524-36-5P
(preparation of, as binder resin)

L26 ANSWER 25 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:570432 HCAPLUS
DOCUMENT NUMBER: 119:170432
TITLE: Electrophotographic plate for **lithographic** masters
INVENTOR(S): Kato, Eiichi; Kasai, Kyosuke; Yamazaki, Hirohisa
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 39 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 04251260 | A2 | 19920907 | JP 1991-11555 | 1991 0108 |

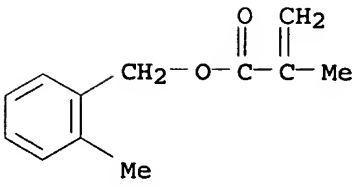
PRIORITY APPLN. INFO.: JP 1991-11555 1991 0108

AB In the title electrophotog. plate for **lithog.** masters provided with ≥1 photoconductor layer containing photoconductive ZnO and a binder resin, the above binder resin (atomic average mol. weight 1 + 103-2 + 104) contains ≥1 CHa1Ca2(CO2R3) [a1,a2 = H, halo, CN, hydrocarbon moiety; R3 = hydrocarbon moiety] ≥30% and a polymn component, containing polar groups selected from PO3H2, SO3H, CO2H, PO(OH)R1 (R1 = hydrocarbon moiety, oxyhydrocarbon), cyclic acid anhydride group, 0.5-15%, and the photoconductor layer contains a nonaq. dispersion of resin particles (equal to or smaller in size than that of the ZnO particles) obtained by dispersion polymerizing a polar-group-containing monomer in the presence of a soluble dispersion-stabilizing resin.
IT **135820-62-1P**
(preparation of, as binder resin, electrophotog. plate for retrog. masters using)
RN 135820-62-1 HCAPLUS
CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 91990-22-6

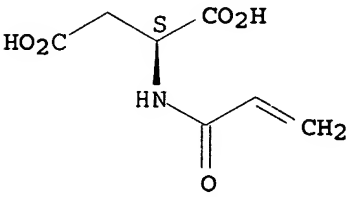
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05
ICS G03G005-05; G03G005-08; G03G013-28
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 35
ST electrophotog plate **lithog** master binder
IT Electrophotographic photoconductors and photoreceptors
(**lithog.** masters from, resin dispersion for)
IT **Lithographic** plates
(masters, electrophotog. resin dispersion for)
IT 1187-59-3, N-Methylacrylamide 9003-01-4, Acrylic acid homopolymer 9003-05-8 9003-39-8, N-Vinylpyrrolidone homopolymer 9003-47-8 25232-42-2, N-Vinylimidazole homopolymer 25249-16-5, 2-Hydroxyethylmethacrylate homopolymer 25722-14-9 26022-14-0 51131-63-6 75455-03-7
(latex containing, for electrophotog. plates for **lithog.** masters)
IT 65697-21-4P 65697-22-5P, Acrylic acid-benzylmethacrylate copolymer 126969-78-6P 130094-33-6P 130952-79-3P 131808-63-4P 135740-18-0P 135740-30-6P 135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P 135740-36-2P 135740-37-3P 135740-38-4P 135740-39-5P 135740-41-9P 135740-43-1P 135740-44-2P 135740-46-4P 135770-63-7P **135820-62-1P** 139645-92-4P 139663-63-1P 142648-25-7P 146817-57-4P 146817-58-5P 146817-61-0P 147524-36-5P
(preparation of, as binder resin, electrophotog. plate for retrog. masters using)

L26 ANSWER 26 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:549518 HCAPLUS
DOCUMENT NUMBER: 119:149518

TITLE: Electrophotographic **lithographic** master
INVENTOR(S): Kato, Eiichi; Ishii, Kazuo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 52 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

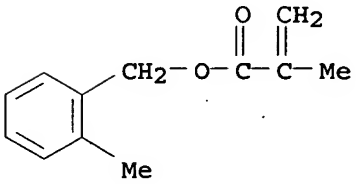
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 04255857 | A2 | 19920910 | JP 1991-36523 | 1991 0207 |
| PRIORITY APPLN. INFO.: | | | JP 1991-36523 | 1991 0207 |

AB The title electrophotog. **lithog.** master employs ≥1 photoconductive layer and an uppermost surface layer, the binder resin for the photoconductive layer containing ≥1 Resin (weight-average mol. weight 1 + 103-2 + 104) containing a polymer component CHa1ca2(CO2R3) [a1, a2 = H, halo, CN, hydrocarbon moiety; R3 = hydrocarbon moiety] ≥30% and a polymer component containing polar groups selected from PO3H2, SO3H, CO2H, PO(OH)R1 (R1 = hydrocarbon or oxyhydroxycarbon moiety), and acid anhydride groups 0.5-15% and the uppermost surface layer containing nonaq. solvent-disperse resin particles obtained by dispersion polymerizing a monofunctional monomer(s) containing a CO2H precursor in the presence of a dispersion-stabilizing resin. An electrophotog. **lithog.** master is obtained capable of withstanding severe conditions and providing superior printed images.

IT **135820-62-1P**
(preparation of, as binder resin)
RN 135820-62-1 HCAPLUS
CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

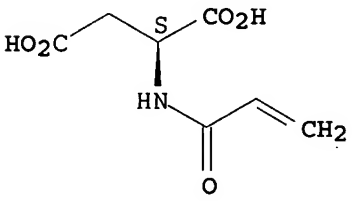
CRN 91990-22-6
CMF C12 H14 O2




CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05
ICS C08L033-04; C08L101-00; G03G005-147; G03G013-28
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog **lithog** plate resin
IT Acrylic polymers, uses
(electrophotog. **lithog.** plates from)
IT **Lithographic** plates
(electrophotog., resins for)
IT Electrophotographic photoconductors and photoreceptors
(for **lithog.** masters, resins for)
IT 149643-09-4 149643-10-7 149643-11-8 149643-13-0
149671-80-7 149671-81-8 149671-82-9 149671-83-0
149671-84-1 149671-85-2 149671-86-3 149671-87-4
149671-88-5 149671-89-6 149671-90-9 149671-92-1
149671-94-3 149671-95-4 149671-96-5 149671-97-6
149671-98-7 149671-99-8
(latex containing particles of, electrophotog. **lithog.** masters from)
IT 65697-21-4P 65697-22-5P 126969-70-8P 126969-78-6P
130094-33-6P 130952-79-3P 131808-63-4P 135740-30-6P
135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P
135740-36-2P 135740-37-3P 135740-38-4P 135740-39-5P
135740-41-9P 135740-43-1P 135740-44-2P 135740-46-4P
135770-63-7P **135820-62-1P** 139663-63-1P 142648-25-7P
146817-57-4P 146817-58-5P 146817-60-9P 146817-61-0P
(preparation of, as binder resin)

L26 ANSWER 27 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:549517 HCAPLUS
DOCUMENT NUMBER: 119:149517
TITLE: Electrophotographic plate for **lithographic** plate preparation
INVENTOR(S): Kato, Eiichi; Ishii, Kazuo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 52 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| JP 04251861 | A2 | 19920908 | JP 1991-26850 | 1991 0128 |
| JP 3048178 | B2 | 20000605 | | |
| PRIORITY APPLN. INFO.: | | | JP 1991-26850 | 1991 0128 |

AB In the title electrophotog. plate employing ≥1 photoconductive layer containing photoconductive ZnO and a binder resin, the binder resin contains ≥1 resin (weight-average mol. weight 1 + 103-2 + 104) containing the repeating unit CHa1Ca2(CO2R) [a1, a2 = H, halo, CN, hydrocarbon moiety; R = hydrocarbon moiety] ≥30% and a polymer component containing groups selected from PO3H2, SO3H, CO2H, PO(OH)R1 (R1 = hydrocarbon moiety, oxyhydrocarbon moiety), and acid anhydride groups 0.5-15% and the photoconductive layer addnl. contains nonaq. solvent-dispersed resin particles of particle size equal to or less than that of the ZnO particles. The above nonaq. solvent-dispersed resin particles are obtained by dispersion polymerizing ≥1 monofunctional monomer containing ≥1 CO2H precursor in the presence of a soluble dispersion-stabilizing resin.

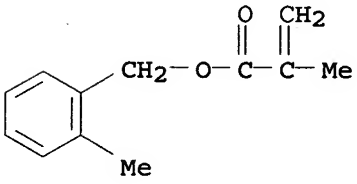
IT **135820-62-1P**
(preparation of, as binder resin, for electrophotog. **lithog**. plates)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

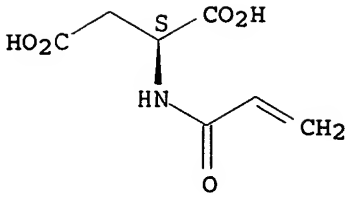
CRN 91990-22-6
CMF C12 H14 O2




CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05
ICS C08K003-22; C08L101-00; G03G005-08; G03G013-28
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog material **lithog** plate
IT Acrylic polymers, uses
(electrophotog. **lithog.** masters from)
IT Electrophotographic photoconductors and photoreceptors
(for **lithog.** masters, binder resins and resin particles for)
IT **Lithographic** plates
(masters, electrophotog., binder resins and resin particles for)
IT 149643-09-4 149643-10-7 149643-11-8 149643-13-0
149671-78-3 149671-81-8 149671-82-9 149671-83-0
149671-84-1 149671-85-2 149671-86-3 149671-87-4
149671-88-5 149671-89-6 149671-90-9 149671-92-1
149671-94-3 149671-95-4 149671-96-5 149671-97-6
149671-98-7 149671-99-8
(latex containing, electrophotog. **lithog.** master from)
IT 65697-21-4P 65697-22-5P 126969-70-8P 126969-78-6P
130094-33-6P 130952-79-3P 131808-63-4P 135740-30-6P
135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P
135740-36-2P 135740-37-3P 135740-38-4P 135740-39-5P
135740-41-9P 135740-43-1P 135740-44-2P 135740-46-4P
135770-63-7P **135820-62-1P** 139663-63-1P 142648-25-7P
146817-57-4P 146817-58-5P 146817-60-9P 146817-61-0P
(preparation of, as binder resin, for electrophotog. **lithog**. plates)

L26 ANSWER 28 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:179945 HCAPLUS
DOCUMENT NUMBER: 118:179945
TITLE: Electrophotographic **lithographic** platemaking
INVENTOR(S): Kato, Eiichi; Kasai, Kiyosuke
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 44 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 04191754 | A2 | 19920710 | JP 1990-321214 | 1990 1127 |

PRIORITY APPLN. INFO.: JP 1990-321214
1990
1127

AB The title **lithog.** plate making involves imagewise exposing a claimed electrophotog. photoreceptor, toner developing, and desensitizing the toner nonbearing regions with a solution containing a hydrophilic compound containing a substituent(s) having a Pearson nucleophilic constant of ≥5.5. The above electrophotog. photoreceptor utilizes ≥1 photoconductor layer and an uppermost surface layer containing a binder resin and resin particles containing ≥1 polymer components containing HCO and(or) CH(OR1)(OR2) [R1, R2 = hydrocarbon moiety; R1, R2 may join to form a ring]. The electrophotog. plate shows good electrostatic properties (especially under severe operational conditions), produce clear high quality images, and yield high quality **lithog** . offset printing masters.

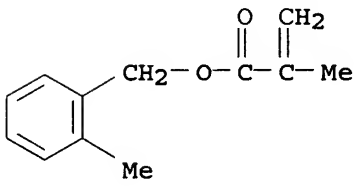
IT **135820-62-1P**
(preparation of, as binder resin, electrophotog. **lithog.** master using)

RN 135820-62-1 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with (2-methylphenyl)methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

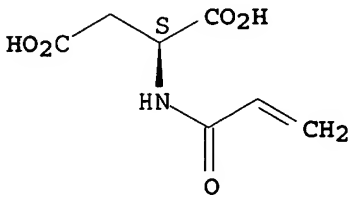
CRN 91990-22-6
CMF C12 H14 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G013-28
ICS G03G005-147

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and

Other Reprographic Processes)
ST electrophotog **lithog** plate making
IT Electrophotographic photoconductors and photoreceptors
(**lithog.** plate making using)
IT **Lithographic** plates
(master, electrophotog., plate making for)
IT 68-11-1, Thioglycolic acid, uses 70-49-5, Thiomalic acid
147-93-3, Thiosalicylic acid 505-47-5 3375-50-6,
2-Mercaptoethanesulfonic acid 7757-83-7, Sodium sulfite
7772-98-7, Sodium thiosulfate 10117-38-1, Potassium sulfite
23522-05-6, Taurin 43064-23-9, 2-Mercaptoethyl phosphonic acid
145024-19-7
(nucleophilic agent, **lithog.** plate desensitization
solution containing)
IT 27155-22-2P, Acrylic acid-methyl acrylate-methyl methacrylate
copolymer 65697-21-4P 126969-70-8P 130094-33-6P
130952-79-3P 131808-63-4P 135740-18-0P 135740-30-6P
135740-31-7P 135740-32-8P 135740-33-9P 135740-35-1P
135740-37-3P 135740-38-4P 135740-39-5P 135740-41-9P
135740-43-1P 135740-44-2P 135740-46-4P 135770-63-7P
**135820-62-1P** 146817-57-4P 146817-58-5P 146817-60-9P
146817-61-0P 146817-67-6P 146817-68-7P 146842-16-2P
(preparation of, as binder resin, electrophotog. **lithog.**
master using)
IT 146115-73-3P 146115-74-4P 146166-81-6P 146166-83-8P
146166-87-2P 146166-89-4P 146615-89-6P 146615-90-9P
146615-91-0P 146641-02-3P 146716-95-2P 146716-96-3P
146716-98-5P 146790-36-5P 146790-37-6P 146817-66-5P
(preparation of, as resin particles for electrophotog.
**lithog.** master)

L26 ANSWER 29 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1992:72202 HCAPLUS
DOCUMENT NUMBER: 116:72202
TITLE: Electrophotographic photoreceptor sheets for **lithographic** platemaking
INVENTOR(S): Kato, Eiichi; Ishii, Kazuo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 52 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 03017664 | A2 | 19910125 | JP 1989-150485 | 19890615 |
| JP 2634670 | B2 | 19970730 | | |

PRIORITY APPLN. INFO.: JP 1989-150485 19890615

AB In the title photoreceptor sheet utilizing ≥1 photoconductor layers containing photoconductive ZnO and a binder resin, the photoconductor layer contains hydrophilic resin particles of average diameter equal to or smaller than the maximum diameter of

the ZnO particles, and the binder resin contains ≥1 1st-type resins containing the structural repeating unit -[CHa1-Ca2(CO2R1)]- [a1, a2 = H, halo, alkyl, cyano; R1 = hydrocarbyl], having a weight average mol. weight of 1 + 103 - 2 + 104, and polar groups, and ≥1 2nd-type resins. The 2nd-type resin is a graft copolymer (weight average mol. weight 3 + 104 - 1 + 106) obtained from a monofunctional macromonomer selected from monomers containing the structural repeating units -[CHa3-CHa4(X0-Q0)]- [X0 = CO2, OCO, (CH2)lOCO, (CH2)lCO2, O, CONHCO2, CONHCONH, SO2, CO, CONR2, SO2NR2 (R2 = H, hydrocarbyl), substituted Ph; l = 1-3, Q0 = C1-18 aliphatic, C6-12 aliphatic; a3, a4 = same as a1, a2 above] or -(CHa5 - CQ1a6)- [Q1 = cyano, CONH2, substituted Ph; a5, a6 = same as a1, a2 above] having polymerizable C-C double bonds only at 1 end of the polymer chain and CHa7:Ca8(X1-Q2) [X1 = same as X0 above; Q2 = same as Q0 above; a7, a8 = same as a1, a2 above].

IT **137625-66-2**
(binder resin, electrophotog. plate using)

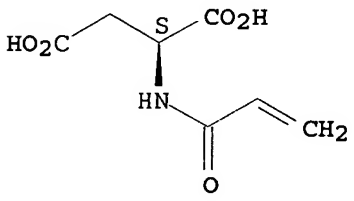
RN 137625-66-2 HCAPLUS

CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with 2-acetylphenyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

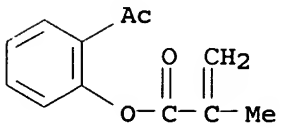
CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.




CM 2

CRN 46404-03-9
CMF C12 H12 O3




IC ICM G03G013-28
ICS G03G005-05

ICA C08L051-00

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

ST binder electrophotog photoreceptor **lithog** plate

IT **Lithographic** plates
(electrophotog. plates, binder resin for)

IT Electrophotographic photoconductors and photoreceptors
(for **lithog.** plate making, binder resin for)
IT 65697-21-4 126969-79-7 131808-91-8 137560-69-1 137560-70-4
137560-71-5 137560-72-6 137560-73-7 137560-76-0
137560-77-1 137560-78-2 **137625-66-2** 137991-51-6
137991-53-8
(binder resin, electrophotog. plate using)

L26 ANSWER 30 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1992:48824 HCAPLUS
DOCUMENT NUMBER: 116:48824
TITLE: Electrophotographic photoreceptor sheet for **lithographic** platemaking
INVENTOR(S): Kato, Eiichi; Ishii, Kazuo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 39 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 03046665 | A2 | 19910227 | JP 1989-180559 | 19890714 |
| JP 2647719 | B2 | 19970827 | | |

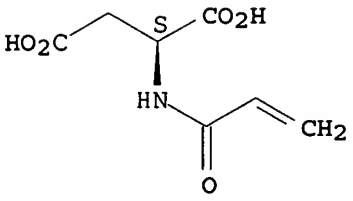
PRIORITY APPLN. INFO.: JP 1989-180559 19890714

AB In the title electrophotog. photoreceptor sheet utilizing ≥1 photoconductor layer containing photoconductive ZnO and a binder resin, the photoconductive layer contains hydrophilic resin particles of average diameter less than that of the ZnO particles, and the binder resin contains ≥1 acrylate resin A and ≥1 acrylate resin B. Acrylate resin A contains a polymer component (weight-average mol. weight 1 + 103-2 + 104) based on CHa1:Ca2(CO2R1) [a1,a2 = H, halo, CN, hydrocarbyl; R1 = hydrocarbyl] (I) ≥30% and a polymer component containing polar groups selected from PO3H2, SO3H, CO2H, P(O)(OH)R [R = hydrocarbyl, OR'(R' = hydrocarbyl)], and cyclic acid anhydride-containing group; and acrylate resin B contains polymer component I (weight-average mol. weight 3 + 104-1 + 106) ≥50% and the 2nd polymer component of resin A 0-5%.
IT **137625-66-2**
(binder resin containing, for electrophotog. photoreceptor sheet for **lithog.** platemaking)
RN 137625-66-2 HCAPLUS
CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with 2-acetylphenyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

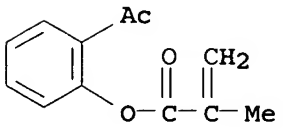
CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



CM 2

CRN 46404-03-9
CMF C12 H12 O3



IC ICM G03G005-05
ICS C08L101-00; G03G013-28
ICA C08F030-02
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog photoreceptor **lithog** platemaking; acrylate binder electrophotog photoreceptor
IT **Lithographic** plates
(electrophotog. photoreceptor sheet for making)
IT Electrophotographic photoconductors and photoreceptors
(sheets, for **lithog.** platemaking)
IT 9003-20-7 9003-55-8 9003-63-8 9011-14-7 9011-87-4
25085-83-0 25213-39-2 25609-74-9 25685-29-4 26634-88-8
28603-63-6 53058-53-0 58931-97-8 59821-65-7 72058-59-4
81772-37-4 131004-75-6 131004-77-8 131004-81-4 131231-65-7
137717-70-5 137717-71-6
(binder resin containing, for electrophotog. photoreceptor for **lithog.** platemaking)
IT 65697-21-4 126969-79-7 126969-94-6 131808-91-8 137560-69-1
137560-70-4 137560-71-5 137560-73-7 137560-76-0
137560-77-1 **137625-66-2** 137991-40-3 137991-41-4
137991-51-6 137991-53-8 137991-54-9 137991-55-0
137991-56-1
(binder resin containing, for electrophotog. photoreceptor sheet for **lithog.** platemaking)
IT 33408-30-9D, reaction product with 1,6-hexamethylenediisocyanate
124919-84-2 125120-66-3 134158-48-8 137285-49-5
137285-64-4 137285-66-6 137285-68-8 137285-70-2
137285-71-3 137560-68-0 137964-20-6 138570-83-9
(resin particles from, for electrophotog. photoreceptor sheets used in **lithog.** platemaking)

L26 ANSWER 31 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:418639 HCAPLUS
DOCUMENT NUMBER: 115:18639
TITLE: Electrophotographic plate for

**lithographic** plate making
INVENTOR(S): Kato, Eiichi; Ishii, Kazuo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 41 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 02201454 | A2 | 19900809 | JP 1989-19878 | 1989 0131 |
| PRIORITY APPLN. INFO.: | | | JP 1989-19878 | 1989 0131 |

AB In the title electrophotog. plate possessing >1 photoconductor layers containing photoconductive ZnO and a binder resin on an elec. conductive support, the photoconductive layer(s) contains hydrophilic resin particles having average particle size less than that of the maximum size of the photoconductive ZnO particles, and the binder resin contains a copolymer 0.5-20% of weight average mol. weight 103-2+104 and containing ≥1 polar groups selected from PO3H2, SO3H, CO2H, OH, SH, and P(O)(OR)OH (R = hydrocarbyl).

IT **134235-34-0**
(binder resin, electrophotog. photoreceptor using)

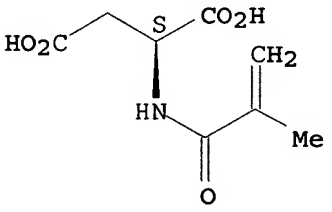
RN 134235-34-0 HCAPLUS

CN L-Aspartic acid, N-(2-methyl-1-oxo-2-propenyl)-, polymer with 6-hydroxyhexyl 2-methyl-2-propenoate and 1-naphthalenyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

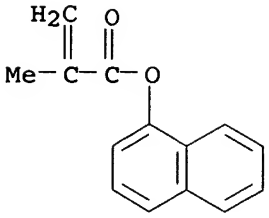
CRN 94854-50-9
CMF C8 H11 N O5

Absolute stereochemistry.



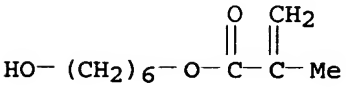

CM 2

CRN 19102-44-4
CMF C14 H12 O2



CM 3

CRN 13092-57-4
CMF C10 H18 O3



IC ICM G03G013-28
ICS B41N001-14; G03G005-05; G03G005-08
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog **lithog** plate
IT **Lithographic** plates
(electrophotog. plates from)
IT Electrophotographic plates
(**lithog.** plates from)
IT 134158-50-2 134158-51-3 134158-52-4 134158-53-5
134158-54-6 134158-55-7 134158-57-9 134158-59-1
134158-60-4 134158-61-5 134182-77-7 134182-80-2
134232-94-3 134232-95-4 **134235-34-0**
(binder resin, electrophotog. photoreceptor using)
IT 9002-98-6D, N-acetyl-N-adipoyl derivs. 26355-01-1 28062-60-4
29960-84-7 31212-98-3, Methacrylic acid-vinyl alcohol copolymer
125120-27-6 134158-27-3 134158-28-4 134158-41-1
134158-42-2 134158-43-3 134158-44-4 134158-45-5
134158-46-6 134158-47-7 134158-48-8 134288-48-5
(latex from, for **lithog.** plates)

L26 ANSWER 32 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:226756 HCAPLUS
DOCUMENT NUMBER: 112:226756
TITLE: Electrophotographic photoreceptor
INVENTOR(S): Kato, Eiichi; Ishii, Kazuo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 75 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| EP 352697 | A2 | 19900131 | EP 1989-113585 | 1989 0724 |
| EP 352697 | A3 | 19901122 | | |
| EP 352697 | B1 | 19961120 | | |
| R: DE, GB | | | | |
| JP 02034860 | A2 | 19900205 | JP 1988-183701 | 1988 0725 |
| JP 2530207 | B2 | 19960904 | | |
| JP 02040660 | A2 | 19900209 | JP 1988-190525 | 1988 0801 |
| JP 2584283 | B2 | 19970226 | | |
| JP 02068562 | A2 | 19900308 | JP 1988-220442 | 1988 0905 |
| JP 2584289 | B2 | 19970226 | | |
| US 5084367 | A | 19920128 | US 1989-384540 | 1989 0725 |

| | | | |
|---|---|---|---|
| PRIORITY APPLN. INFO.: | JP 1988-183701 | A | 1988 0725 |
| | JP 1988-190525 | A | 1988 0801 |
| | JP 1988-220442 | A | 1988 0905 |

AB An electrophotog. photoreceptor which exhibits excellent electrostatic characteristics and moisture resistance comprises ≥1 photoconductive layer containing at least inorg. photoconductor particles and a binder resin comprising ≥1 resin having a weight-average mol. weight of 103-2 + 104 and containing ≥1 polar group selected from PO3H2, SO3H, CO2H, and PO(OH)R (R = hydrocarbyl or OR1 wherein R1 = hydrocarbyl or a cyclic acid anhydride-containing group) and ≥1 resin having a weight-average mol. weight of ≥5 + 104 and containing a crosslinked structure. The electrophotog. photoreceptor employing the binder resin described above may be used as a presensitized plate which provides a **lithog.** plate causing no background stains.

IT **118867-05-3 127061-91-0**
(photoconductive compns. containing zinc oxide particles and, for electrophotog. photoreceptors)

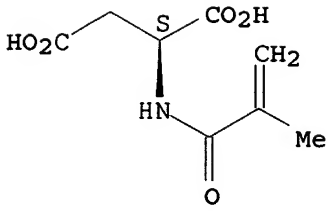
RN 118867-05-3 HCAPLUS

CN L-Aspartic acid, N-(2-methyl-1-oxo-2-propenyl)-, polymer with ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

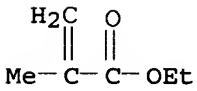
CRN 94854-50-9
CMF C8 H11 N O5

Absolute stereochemistry.



CM 2

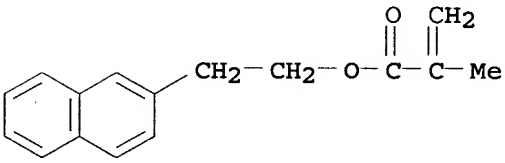
CRN 97-63-2
CMF C6 H10 O2



RN 127061-91-0 HCAPLUS
CN L-Aspartic acid, N-(1-oxo-2-propenyl)-, polymer with 2-(2-naphthalenyl)ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

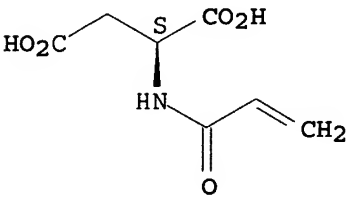
CRN 71154-41-1
CMF C16 H16 O2



CM 2

CRN 70714-77-1
CMF C7 H9 N O5

Absolute stereochemistry.



IC ICM G03G005-05
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and

Other Reprographic Processes)
ST electrophotog photoreceptor binder resin; **lithog** plate electrophotog photoreceptor
IT **Lithographic** plates
(electrophotog. materials containing zinc oxide photoconductor and binder resins containing polar groups and crosslinked structure for preparation of)
IT 28062-47-7 30604-93-4 35641-48-6 37284-71-2 38742-68-6
51884-56-1 81192-72-5 91650-34-9 96858-52-5 97428-98-3
111594-04-8 114633-33-9 115859-46-6 118786-79-1
118786-80-4 118786-81-5 118786-82-6 118786-83-7
118786-84-8 118786-85-9 118786-86-0 118786-87-1
118786-88-2 118786-89-3 118786-90-6 **118867-05-3**
126969-29-7 126969-30-0 126969-31-1 126969-32-2
126969-34-4 126969-36-6 126969-37-7 126969-38-8
126969-40-2 126969-41-3 126969-42-4 126969-43-5
126969-44-6 126969-46-8 126969-47-9 126969-48-0
126969-50-4 126969-51-5 126969-52-6 126969-53-7
126969-54-8 126969-55-9 126969-56-0 126969-57-1
126969-58-2 126969-59-3 126969-61-7 126969-63-9
126969-65-1 126969-67-3 126969-68-4 126969-70-8
126969-71-9 126969-73-1 126969-75-3 126969-76-4
126969-78-6 126969-79-7 126969-80-0 126969-82-2
126969-84-4 126969-86-6 126969-88-8 126969-90-2
126969-92-4 126969-93-5 126969-95-7 126969-97-9
126969-99-1 126970-01-2 126970-04-5 126970-06-7
126970-07-8 126970-08-9 126978-02-7 126978-04-9
126978-06-1 126978-08-3 126978-09-4 126978-10-7
126978-12-9 126978-14-1 126978-15-2 126978-16-3
126978-17-4 126978-18-5 126981-98-4 126981-99-5
126982-00-1 126982-06-7 126982-08-9 126982-10-3
126982-27-2 126982-29-4 126999-41-5 126999-43-7
126999-44-8 126999-46-0 126999-48-2 126999-50-6
126999-52-8 126999-54-0 126999-55-1 126999-57-3
126999-58-4 127032-52-4 **127061-91-0** 127212-67-3
127212-69-5 127212-70-8
(photoconductive compns. containing zinc oxide particles and, for electrophotog. photoreceptors)

L26 ANSWER 33 OF 33 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1989:85412 HCAPLUS
DOCUMENT NUMBER: 110:85412
TITLE: Electrophotographic photoreceptor
INVENTOR(S): Kato, Eiichi; Ishii, Kazuo; Itakura, Ryosuke
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 282275 | A2 | 19880914 | EP 1988-302032 | 1988 0309 |
| EP 282275 | A3 | 19900117 | | |
| EP 282275 | B1 | 19940518 | | |

R: DE, GB
JP 64000564 A2 19890105 JP 1988-49817 1988 0304
JP 2549541 B2 19961030
US 4871638 A 19891003 US 1988-165949 1988 0309
PRIORITY APPLN. INFO.: JP 1987-52186 A 1987 0309

AB An electrophotog. photoreceptor comprises a support and a photoconductive layer containing ≥1 inorg. photoconductive material and a binder comprising at least a resin having a weight-average mol. weight of 103-104 and containing 0.05-20 weight% of a copolymer component having ≥1 acid group selected from PO3H, CO2H, SO3H, OH, SH, and P(OR)O2H [R = (substituted) C1-12 alkyl, (substituted) C7-12 aralkyl, (substituted) C5-8 cycloalkyl, (substituted) aryl] and a resin having a weight-average mol. weight of ≥3 + 104 and containing neither the aforesaid acid group nor a basic group. The electrophotog. photoreceptor has improved electrophotog. characteristics (in particular, dark electrostatic charge retention and photosensitivity) and is capable of producing clear images under various ambient environments, such as heat and humidity. The electrophotog. photoreceptor is also suited for **lithog.** printing capable of reproducing copied images faithful to the original and forming neither overall background stains nor spot-like background stains in prints.

IT **118867-05-3**
(electrophotog. photoreceptors containing zinc oxide photoconductor and)

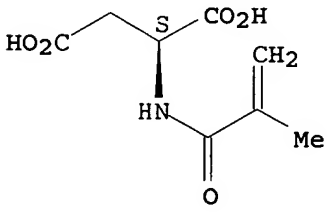
RN 118867-05-3 HCAPLUS

CN L-Aspartic acid, N-(2-methyl-1-oxo-2-propenyl)-, polymer with ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

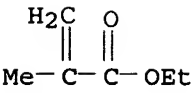
CRN 94854-50-9
CMF C8 H11 N O5

Absolute stereochemistry.




CM 2

CRN 97-63-2
CMF C6 H10 O2



IC ICM G03G005-05
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
ST electrophotog photoreceptor acid polymer binder; resin binder **lithog** electrophotog photoreceptor
IT **Lithographic** plates
(offset, electrophotog. photoreceptors containing inorg. photoconductive material and acid polymer binder for fabrication of)
IT 28062-47-7 38742-68-6 91650-34-9 118786-79-1 118786-80-4
118786-81-5 118786-82-6 118786-83-7 118786-84-8
118786-85-9 118786-86-0 118786-87-1 118786-88-2
118786-89-3 118786-90-6 **118867-05-3**
(electrophotog. photoreceptors containing zinc oxide photoconductor and)